

002

CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 3

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML-22049	6. SURFACE: STATE
1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN				7. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER _____ <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE				8. UNIT OF CA AGREEMENT NAME: N/A	
2. NAME OF OPERATOR: SHENANDOAH ENERGY, INC.				9. WELL NAME and NUMBER: OU GB 1W-16-8-22	
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-4341		
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 550' FNL, 598' FEL, NENE, SECTION 16, T8S, R22E AT PROPOSED PRODUCING ZONE: SAME				10. FIELD AND POOL, OR WILDCAT: GLEN BENCH <i>W. River</i>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 9+/- MILES WEST OF REDWASH, UTAH				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 8S 22E	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET) 550' +/-		16. NUMBER OF ACRES IN LEASE: 640		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 50' +/-		19. PROPOSED DEPTH 7675'		20. BOND DESCRIPTION: 159261960	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4921' KB		22. APPROXIMATE DATE WORK WILL START: ASAP		23. ESTIMATED DURATION: 10 DAYS	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12-1/4"	9-5/8"	K-55	36lb/ft (new)ST&C	450'	Premium Plus	257	1.18	15.6 ppg
7-7/8"	4-1/2"	N-80	11.6lb/ft (new)LT&C	1500'	Extended Lite Hi-fill	693	3.81	11.0 ppg
7-7/8"	4 1/2"	J-55	11.6lb/ft (new)LT&C	TD	Extended Class G	422	1.25	14.35 ppg

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERATION GENERAL RULES:

- ☐ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☐ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER

- ☐ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OW

NAME (PLEASE PRINT) John Busch TITLE Construction Supervisor
 SIGNATURE *John Busch* DATE 27-Jun-02

(This space for State use only)

API NUMBER ASSIGNED: 43-047-34656

APPROVAL: _____

(11/2001)

**Approved by the
Utah Division of
Oil, Gas and Mining**

(See Instruction on Reverse Side)

Date: 07-29-02By: *[Signature]***RECEIVED**

JUL 01 2002

DIVISION OF
OIL, GAS AND MINING

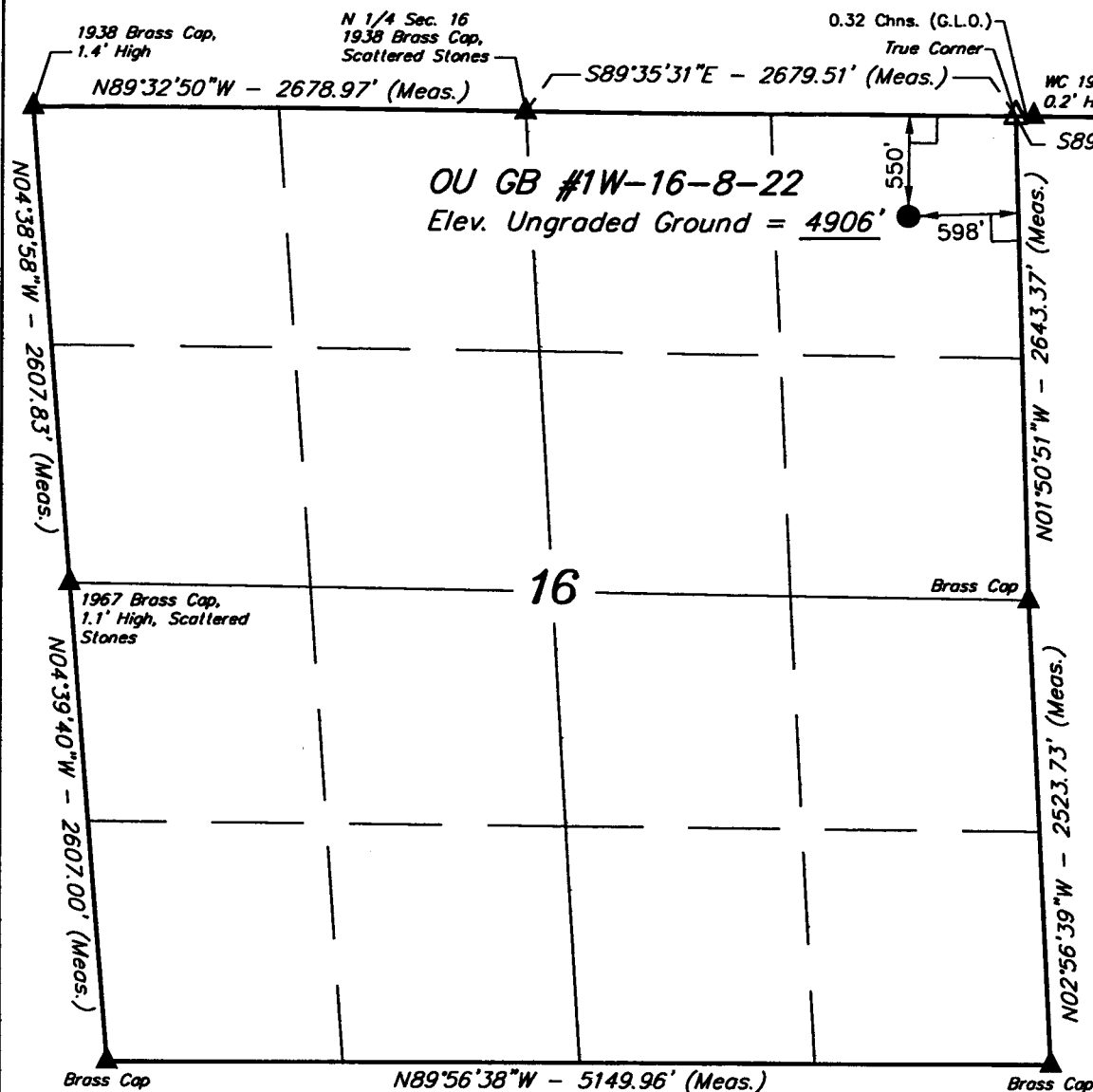
T8S, R22E, S.L.B.&M.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

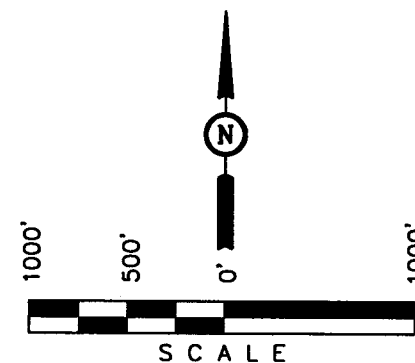
SHENANDOAH ENERGY, INC.

Well location, OU GB #1W-16-8-22, located as shown in the NE 1/4 NE 1/4 of Section 16, T8S, R22E, S.L.B.&M. Uintah County, Utah.



BASIS OF ELEVATION

BENCH MARK (20 EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAIL ELEVATION IS MARKED AS BEING 4697 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert H. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161219
STATE OF UTAH
KAY

LEGEND:

- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
 - △ = SECTION CORNERS COMPUTED FROM G.L.O. (Not Set on Ground)
- (NAD 83)
LATITUDE = 40°07'43.60" (40.128778)
LONGITUDE = 109°26'16.75" (109.437986)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-06-02	DATE DRAWN: 06-11-02
PARTY D.A. J.A. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE SHENANDOAH ENERGY, INC.	

DRILLING PROGRAM

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Prod. Phase Anticipated</u>
Uinta	Surface	
Green River	2524'	
Mahogany Ledge	3479'	
Wasatch	5974'	
TD (Wasatch)	7675'	

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Wasatch	7675'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the State of Utah form OGC-8-X is acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right #36125 or where possible a fresh water line (poly pipe) will be laid in the access road to each location to supply fresh water for drilling purposes.

DRILLING PROGRAM

3. Surface Ownership

The well pad and access road are located on lands owned by the State of Utah.

4. Operator's Specification for Pressure Control Equipment:

- A. 3,000 psi W.P. Double Gate BOP or Single Gate BOP (schematic attached)
- B. Functional test daily
- C. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing whichever is less. Tests shall be done at the time of installation, prior to drilling out and weekly. All tests shall be for a period of 15 minutes

5. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Type</u>	<u>Weight</u>
Surface	450'	12-1/4"	9-5/8"	K-55	36lb/ft (new)ST&C
Production	7675'	7-7/8"	4-1/2"	J-55	11.6lb/ft (new)LT&C

6. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – visually
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.

DRILLING PROGRAM

- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').
 - H. Compressor shall be tied directly to the blooie line through a manifold.
 - I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.
7. Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

8. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

Logging – Mud logging – 4500 to TD
GR-SP-Induction
Neutron Density
MRI

- C. Formation and Completion Interval: Wasatch interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

DRILLING PROGRAM

9. Cementing Program

<u>Casing</u>	<u>Volume</u>	<u>Type & Additives</u>
Surface	257 sx	Premium Plus single slurry mixed to 15.6 ppg, yield = 1.18 cf/sx. Fill to surface with 160 cf (257 sx) calculated. Tail plug used. Allowed to set under pressure
Production	693 sx* Lead 422 sx* Tail	Lead/Tail oilfield type cement circulated in place . Tail slurry: Extended Class "G" + gilsonite and additives as required, mixed to 14.35 ppg, yield = 1.25 cf/sx. Fill to 6275' ($\pm 300'$ above top of Lower Wasatch). Cement Characteristics: Lead slurry: Extended, Lite, Hi-fill + extender and additives as required, mixed to 11.0 ppg, yield = 3.81 cf/sx. Fill to surface. Tail plug used. Allowed to set under pressure.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

10. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 3070.0 psi. Maximum anticipated bottom hole temperature is 140° F.

John Busch
Red Wash Operations Rep.
Shenandoah Energy Inc.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4341

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

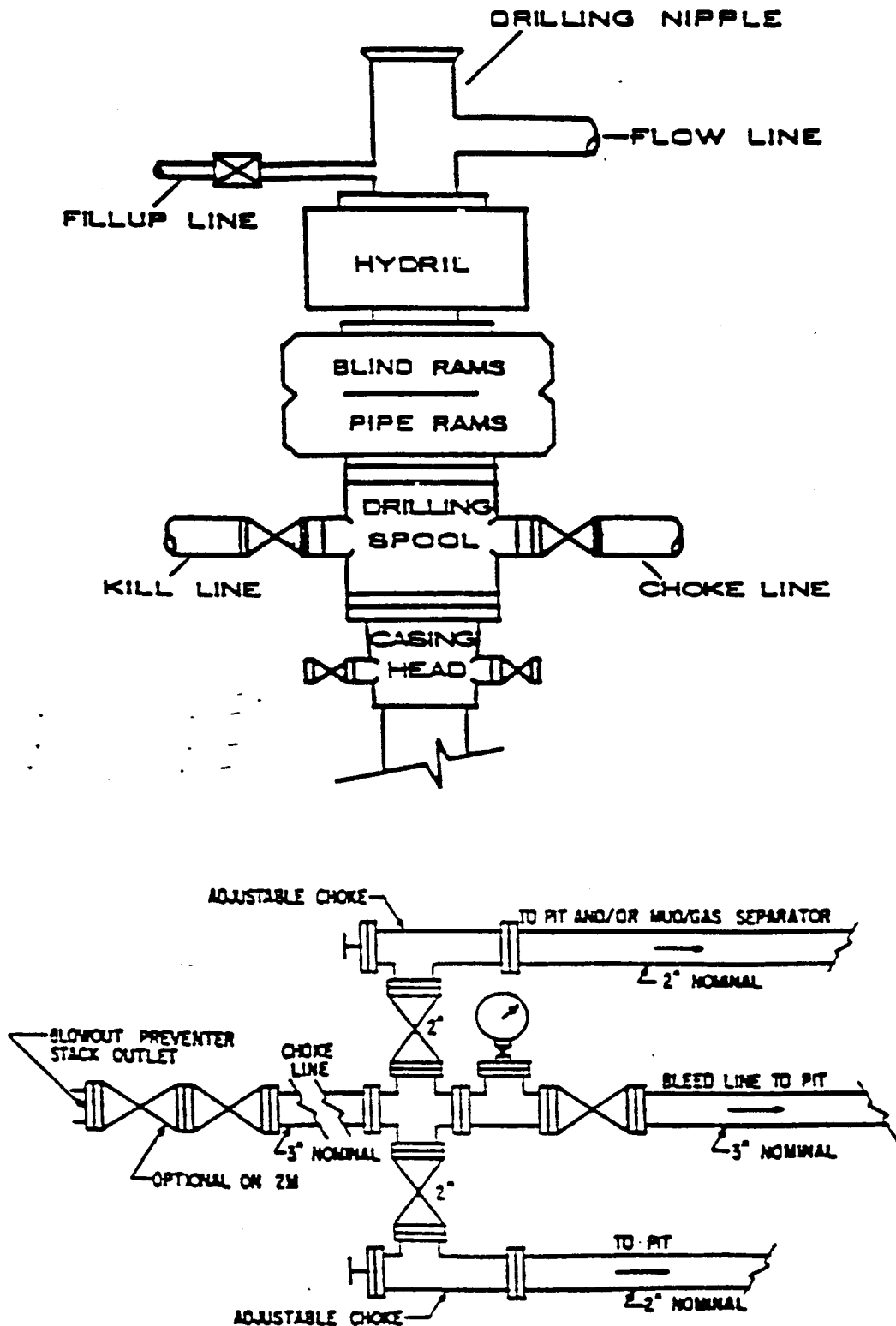
June 27, 2002

John Busch
Red Wash Operations Representative

Date _____

Drilling Program

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



SHENANDOAH ENERGY, INC.

OU GB #1W-16-8-22

LOCATED IN UTAH COUNTY, UTAH

SECTION 16, T8S, R22E, S.L.B.&M.

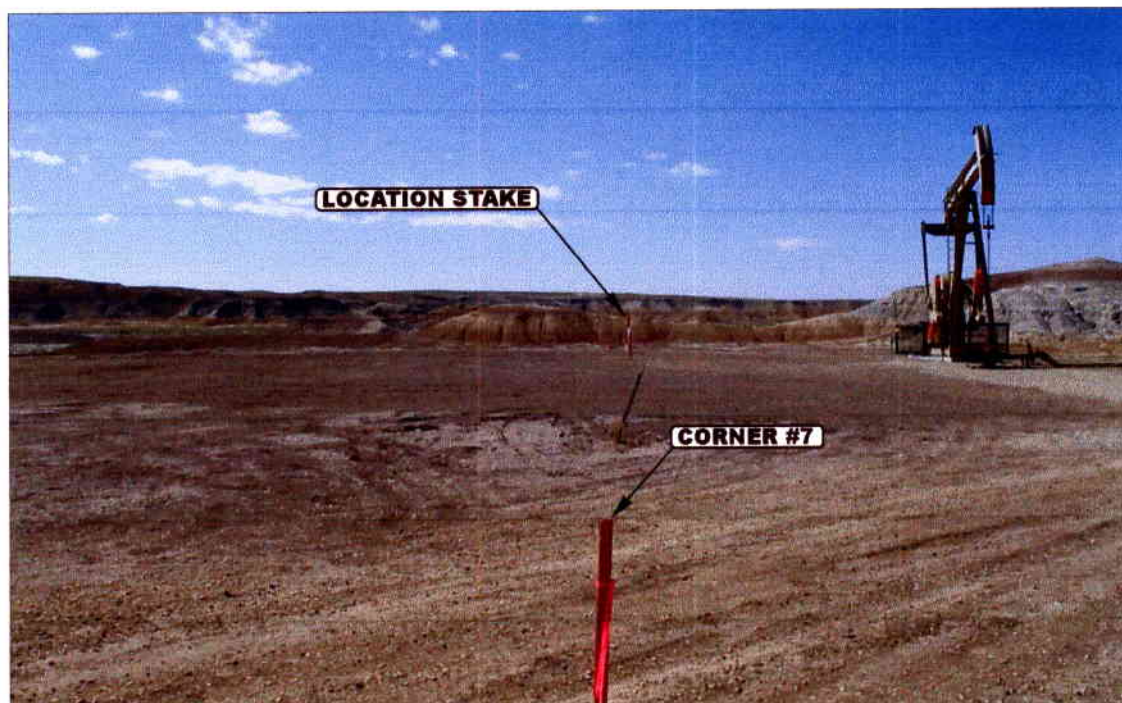


PHOTO: VIEW FROM CORNER #7 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

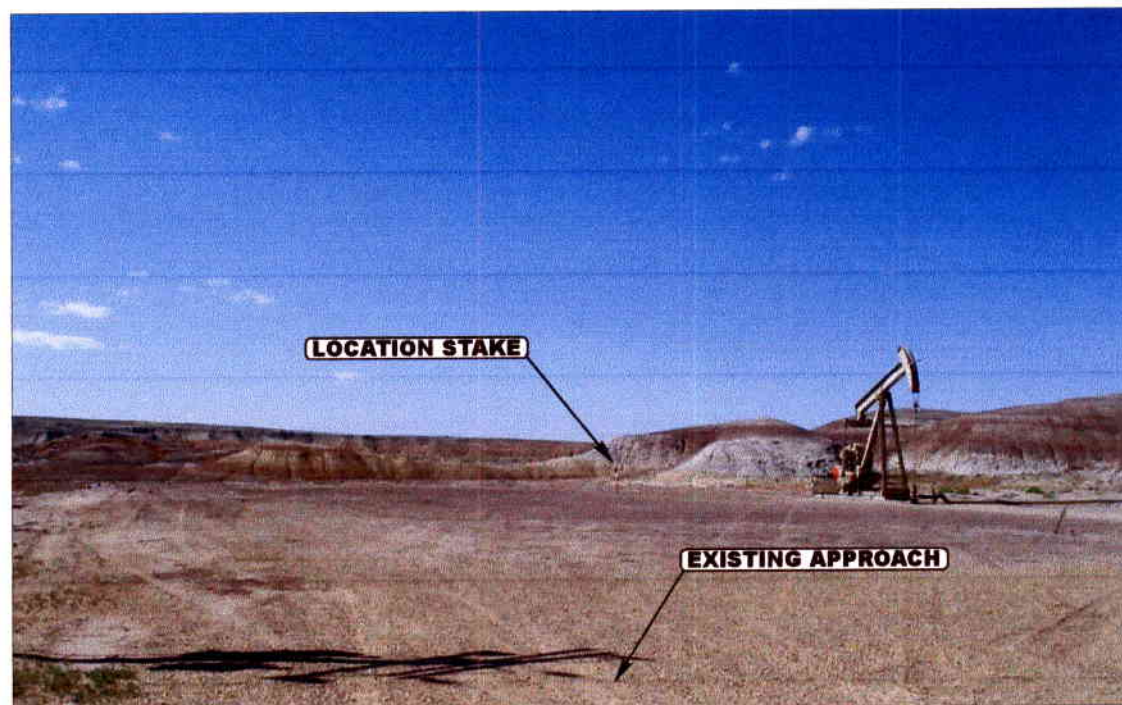


PHOTO: VIEW OF EXISTING APPROACH

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

6 **12** **02**
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: P.M.

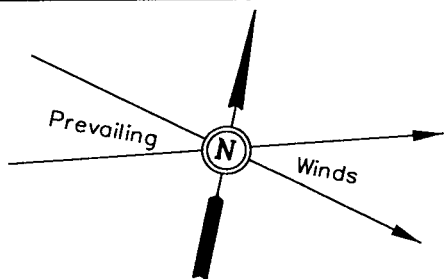
REVISED: 00-00-00

SHENANDOAH ENERGY, INC.

LOCATION LAYOUT FOR

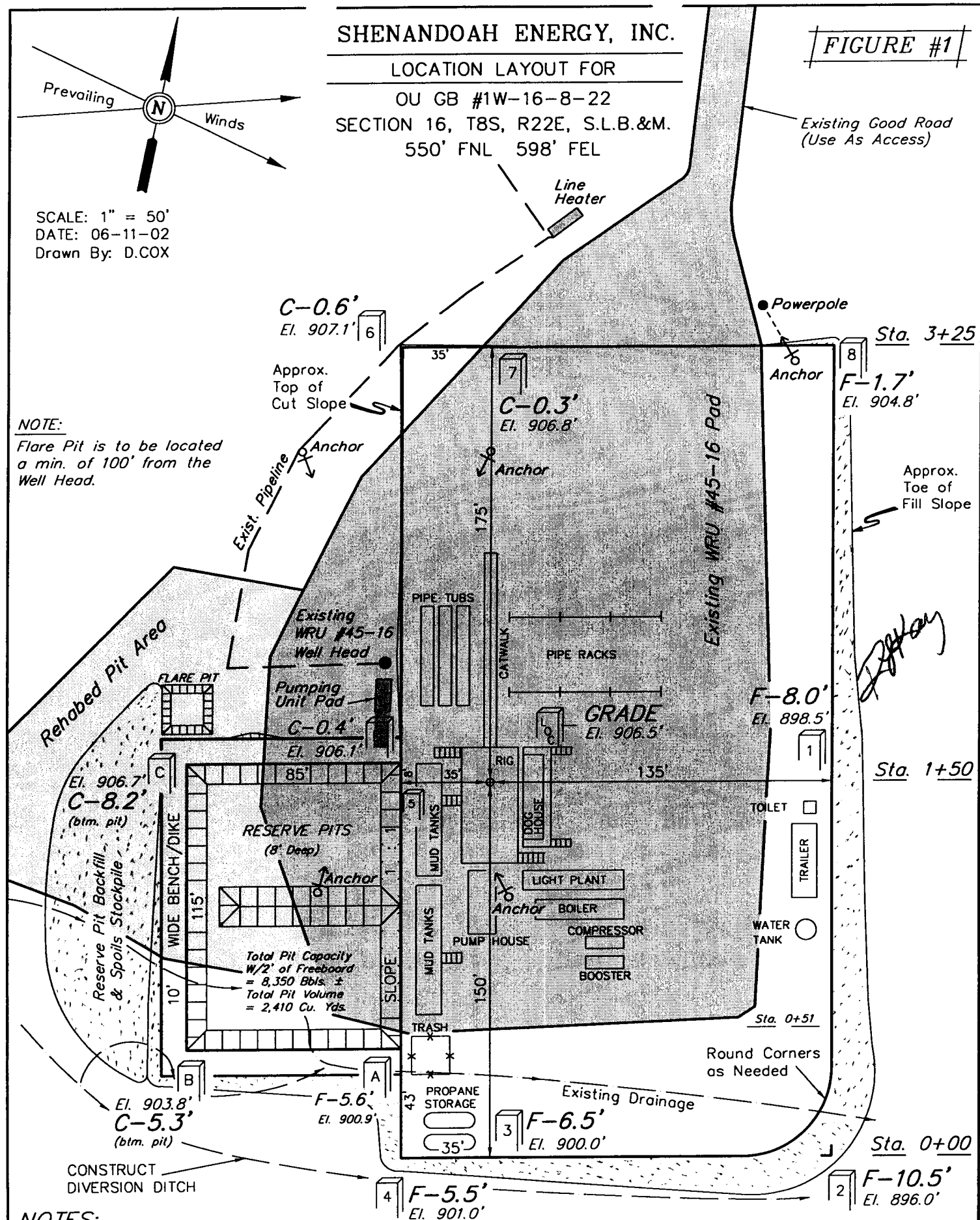
OU GB #1W-16-8-22
SECTION 16, T8S, R22E, S.L.B.&M.
550' FNL 598' FEL

FIGURE #1



SCALE: 1" = 50'
DATE: 06-11-02
Drawn By: D.COX

NOTE:
Flare Pit is to be located
a min. of 100' from the
Well Head.



NOTES:

Elev. Graded Ground At Loc. Stake = 4906.5'
FINISHED GRADE ELEV. AT LOC. STAKE = 4906.5'

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85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

SHENANDOAH ENERGY, INC.

FIGURE #2

TYPICAL CROSS SECTIONS FOR

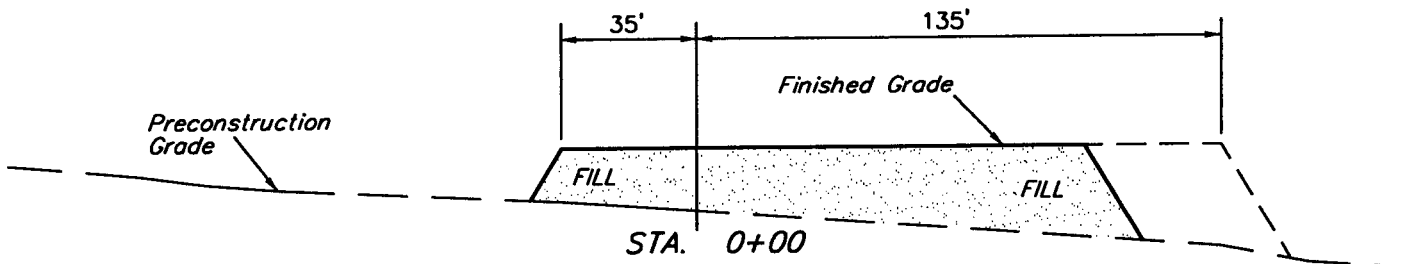
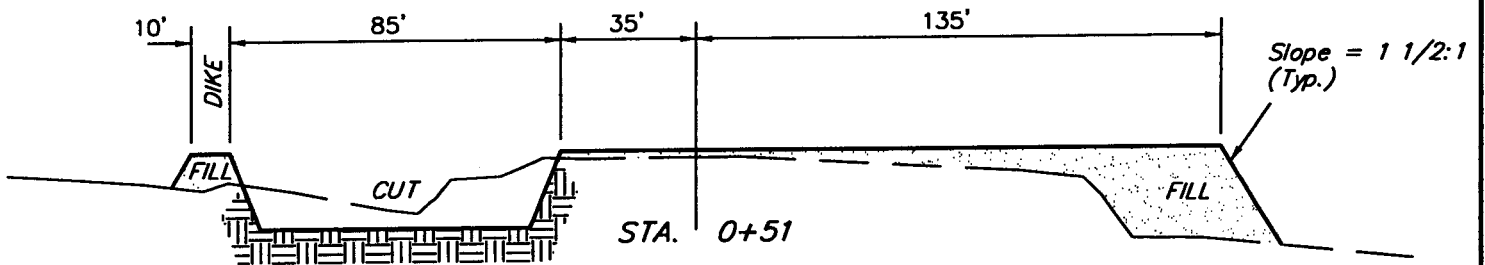
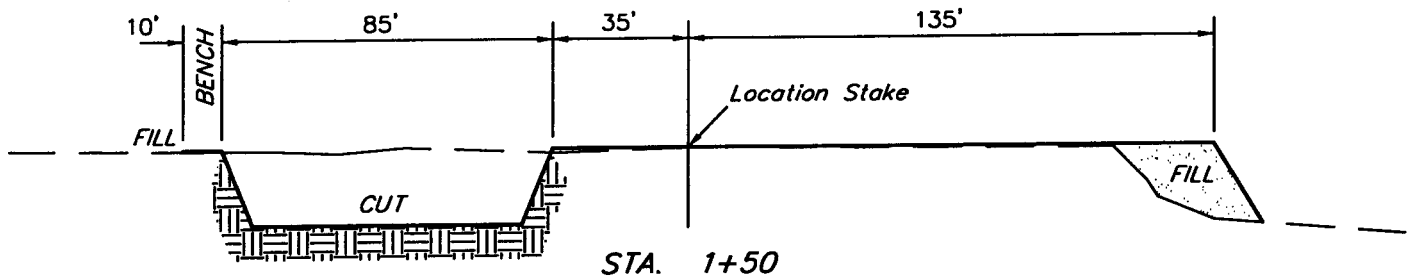
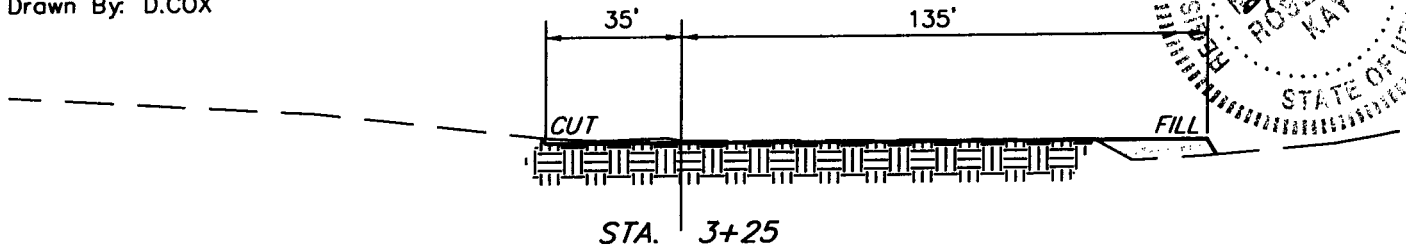
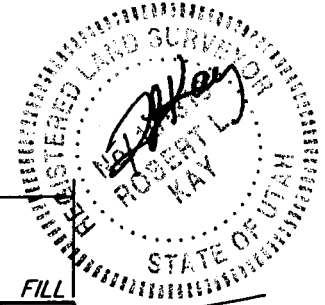
OU GB #1W-16-8-22

SECTION 16, T8S, R22E, S.L.B.&M.

550' FNL 598' FEL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 06-11-02
Drawn By: D.COX



NOTE:

Location Requires Fill
Material To Be Brought
In For Construction.

EXCESS MATERIAL AFTER
5% COMPACTION = <-4,580> Cu. Yds.

Pit Backfill (1/2 Pit Vol.) = 1,210 Cu. Yds.

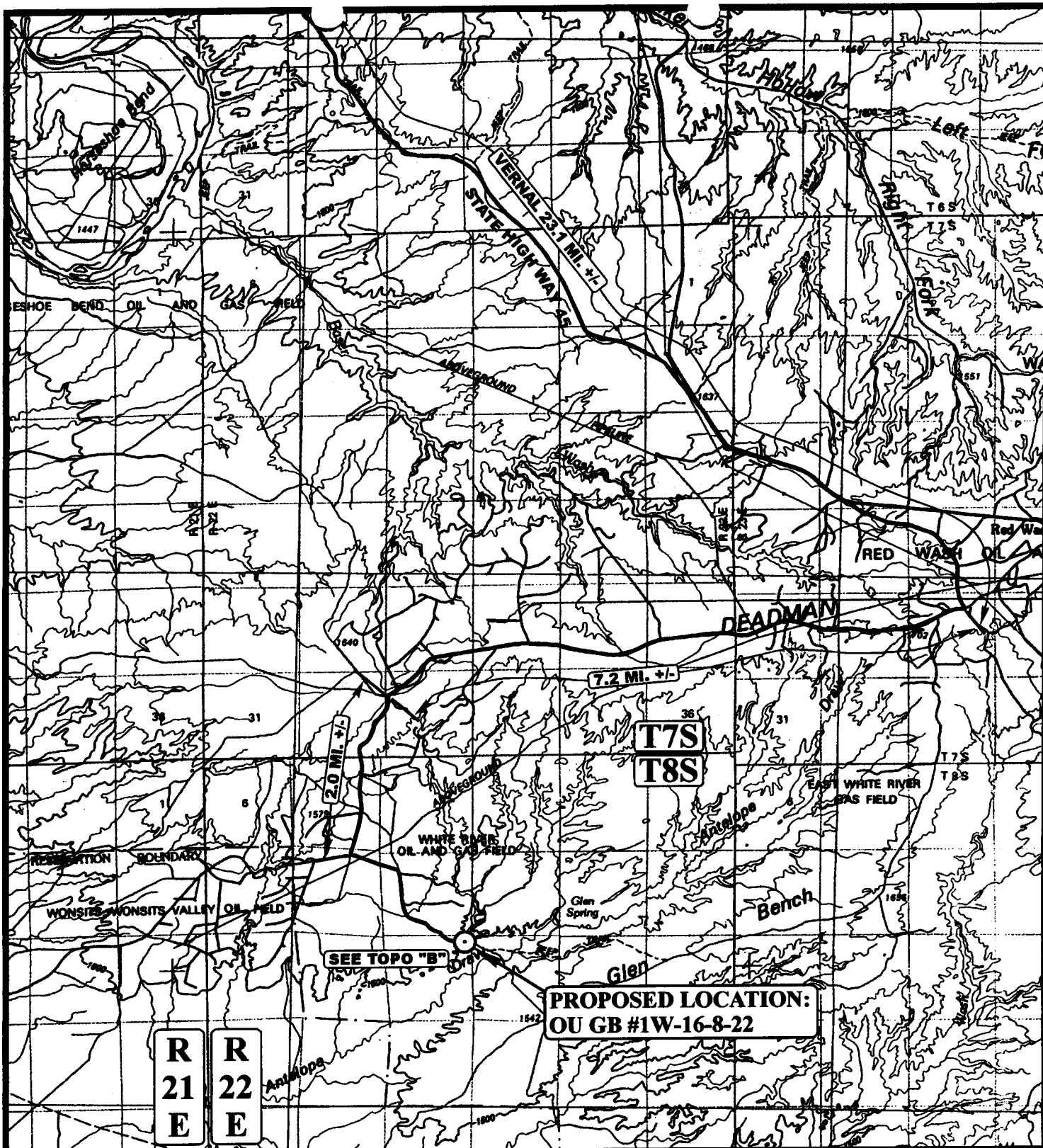
UNBALANCE (Deficit) = <-5,790> Cu. Yds.
(After Rehabilitation)

APPROXIMATE YARDAGES

TOTAL CUT = 1,610 CU.YDS.

FILL = 5,880 CU.YDS.

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LEGEND:

○ PROPOSED LOCATION

SHENANDOAH ENERGY, INC.

OU GB #1W-16-8-22

SECTION 16, T8S, R22E, S.L.B.&M.

550' FNL 598' FEL



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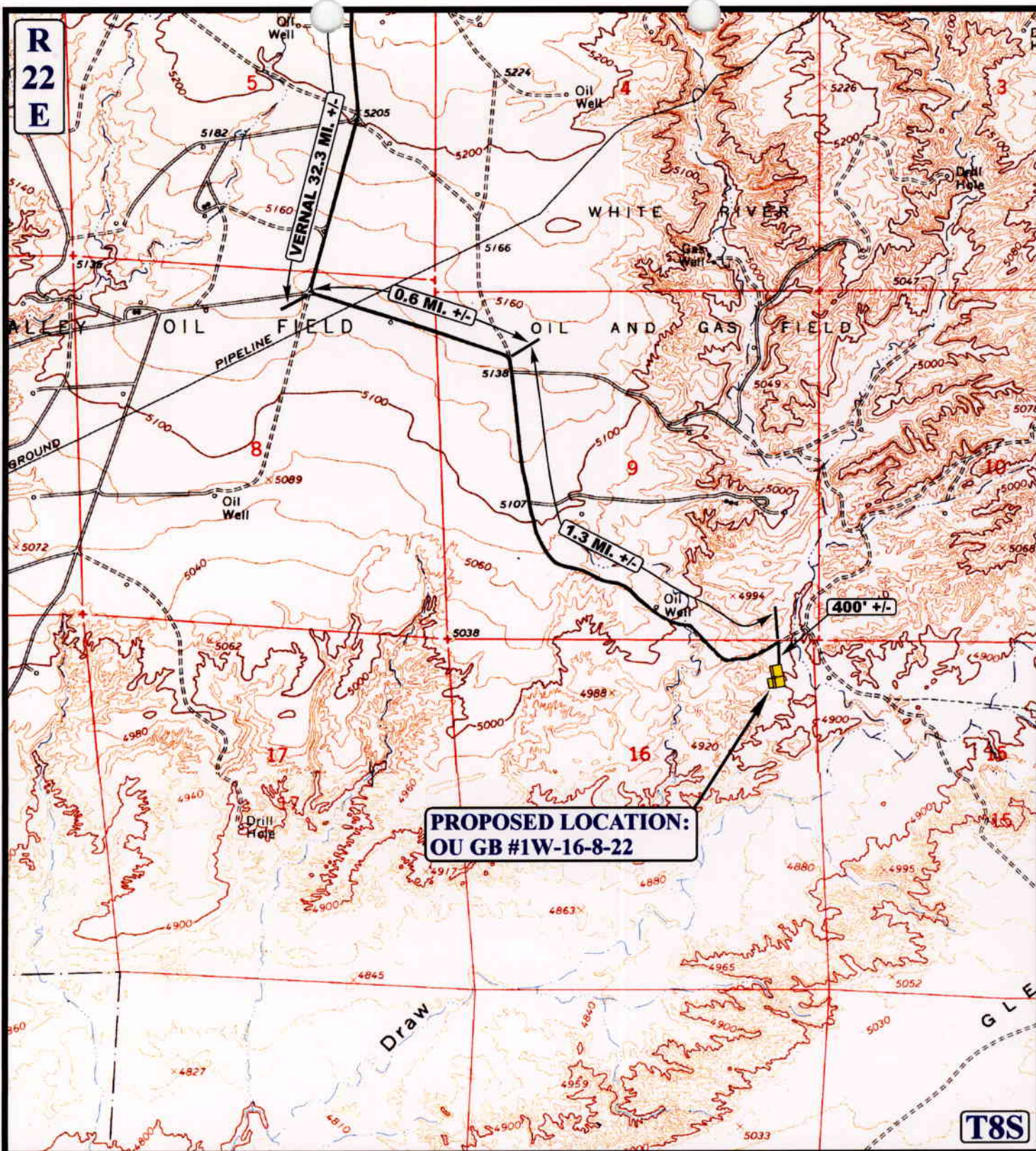


**TOPOGRAPHIC
MAP**

6 12 02
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00





LEGEND:

— EXISTING ROAD

SHENANDOAH ENERGY, INC.

OU GB #1W-16-8-22

SECTION 16, T8S, R22E, S.L.B.&M.

550' FNL 598' FEL



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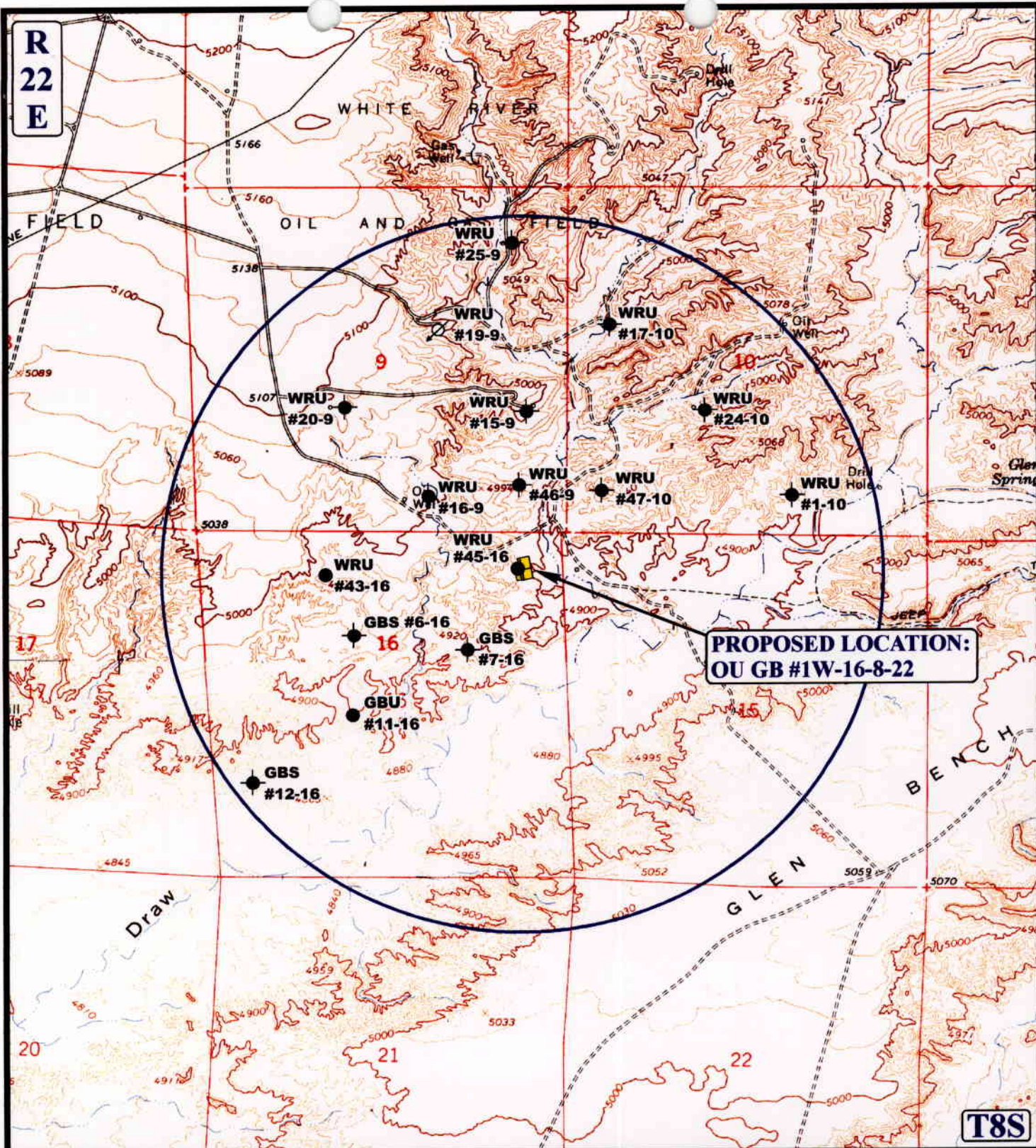
**TOPOGRAPHIC
MAP**

6 12 02
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

**B
TOPO**

**R
22
E**



**PROPOSED LOCATION:
OU GB #1W-16-8-22**

T8S

LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |



SHENANDOAH ENERGY, INC.

**OU GB #1W-16-8-22
SECTION 16, T8S, R22E, S.L.B.&M.
550' FNL 598' FEL**



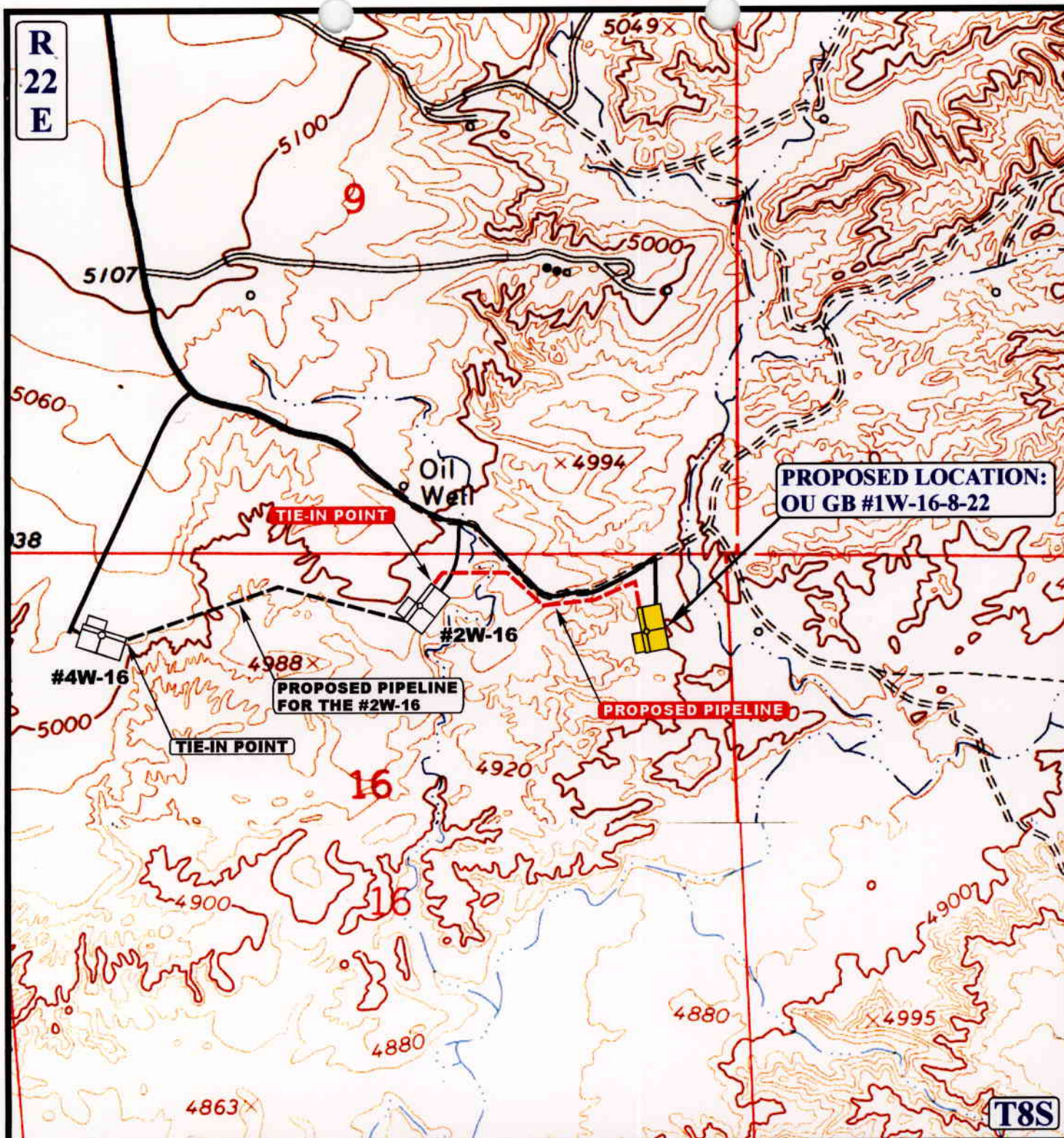
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85 South 200 East Vernal, Utah 84078
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**TOPOGRAPHIC
MAP**

6 12 02
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 1,700' +/-

LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



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85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



SHENANDOAH ENERGY, INC.

OU GB #1W-16-8-22
SECTION 16, T8S, R22E, S.L.B.&M.
550' FNL 598' FEL

TOPOGRAPHIC
MAP

6 **12** **02**
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: P.M. REVISED: 00-00-00

D
TOPO

003

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/01/2002

API NO. ASSIGNED: 43-047-34656

WELL NAME: OU GB 1W-16-8-22

OPERATOR: SHENANDOAH ENERGY INC (N4235)

CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

PROPOSED LOCATION:

NENE 16 080S 220E

SURFACE: 0550 FNL 0598 FEL

BOTTOM: 0550 FNL 0598 FEL

UINTAH

WHITE RIVER (705)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22049 D.M.

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	D.M.	7/26/02
Geology		
Surface		

LATITUDE: 40.12887

LONGITUDE: 109.43740

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. ~~159261980~~ 04127294) D.M.
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 36125)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3. * Glen Ranch Nun PA
Unit ___
☒ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___
___ R649-3-11. Directional Drill

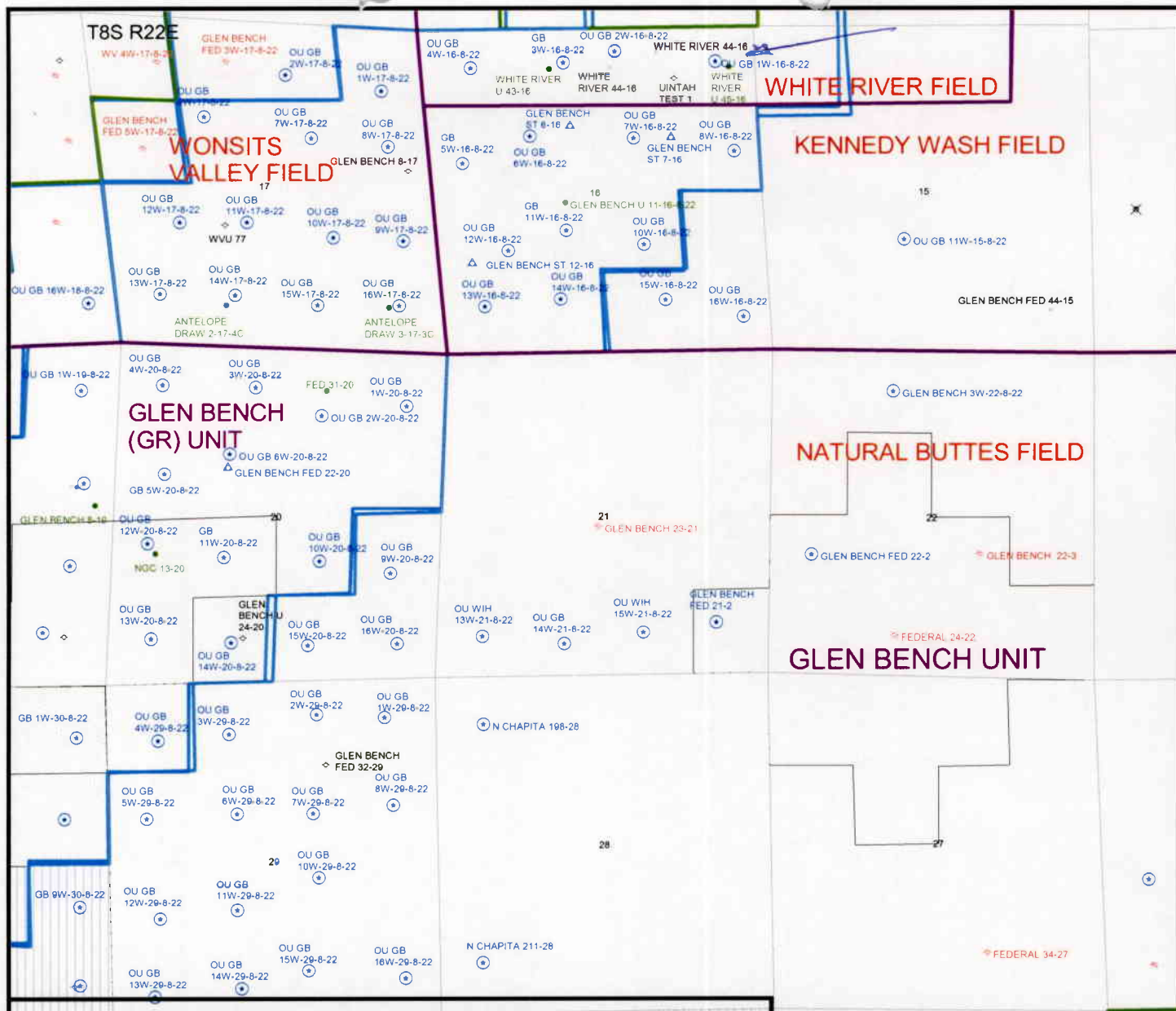
COMMENTS:

Need Permit (7-23-02)

STIPULATIONS:

1- Spacing Slip

2- STATEMENT OF BASIS

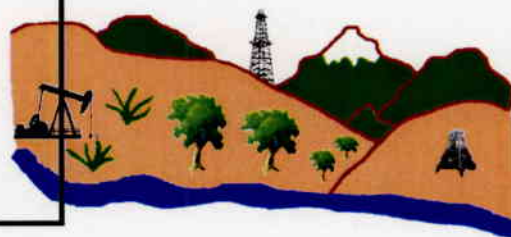


OPERATOR NAME: SHENANDOAH (N4235)

SEC. 16 T8S R22E

FIELD: *White River (705)*

COUNTY: UTAH



Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- Township.shp
- Sections

Well Status

- Gas Injection
- Gas Storage
- Location Abandoned
- Location
- Plugged
- Producing Gas
- Producing Oil
- Shut-In Gas
- Shut-In Oil
- Temporarily Abandoned
- Test Well
- Water Injection
- Water Supply
- Water Disposal

Unit Status

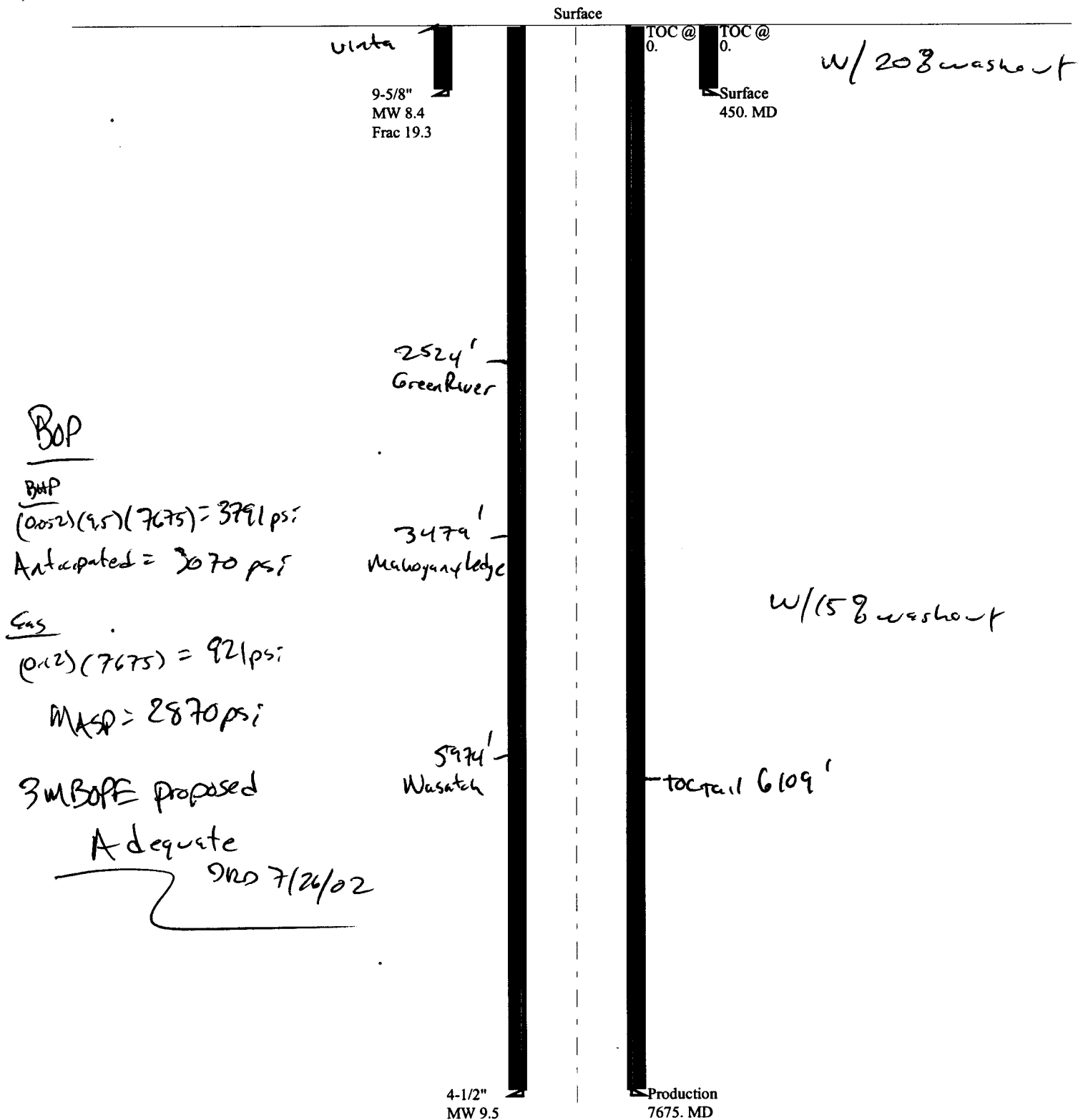
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Utah Oil Gas and Mining



Prepared By: D. Mason
Date: 3-July-2002

Casing Schematic



Well name:

07-02 Shenandoah OU GB 1W-16-8-22

Operator: Shenandoah Energy Inc.

String type: Surface

Project ID:

43-047-34656

Location: Uintah County

Design parameters:**Collapse**

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 71 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 450 ft

Cement top:

Surface

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.494 psi/ft
Calculated BHP 222 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 394 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 7,675 ft
Next mud weight: 9.500 ppg
Next setting BHP: 3,788 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 450 ft
Injection pressure: 450 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	450	9.625	36.00	K-55	ST&C	450	450	8.765	32
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	196	2020	10.29	222	3520	15.85	16	423	26.11 J

BHP = 3791 psi
Max Press @ Shoe = 2924 psi

Prepared by: Dustin K. Doucet
Utah Dept. of Natural Resources

Phone: 801-538-5281
FAX: 801-359-3940

Date: July 26, 2002
Salt Lake City, Utah

ENGINEERING STIPULATIONS:

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	07-02 Shenandoah OU GB 1W-16-8-22	
Operator:	Shenandoah Energy Inc.	
String type:	Production	Project ID: 43-047-34656
Location:	Uintah County	

Design parameters:
Collapse

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 153 °F
Temperature gradient: 1.15 °F/100ft
Minimum section length: 1,500 ft

Cement top:

Surface

Burst

Max anticipated surface pressure:

0 psi

Internal gradient: 0.494 psi/ft

Calculated BHP 3,788 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.

Neutral point: 6,585 ft

Run Seq	Segment Length (ft)	Size (In)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (In)	Internal Capacity (ft³)
2	1500	4.5	11.60	N-80	LT&C	1500	1500	3.875	34.8
1	6175	4.5	11.60	J-55	LT&C	7675	7675	3.875	143.1

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
2	740	5690	7.69	740	7780	10.51	89	223	2.50 J
1	3788	4960	1.31	3788	5350	1.41	72	162	2.26 J

Prepared by: Dustin K. Doucet
Utah Dept. of Natural Resources

Phone: 801-538-5281
FAX: 801-359-3940

Date: July 26, 2002
Salt Lake City, Utah

ENGINEERING STIPULATIONS:

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

**DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS**

Operator Name: SHENANDOAH ENERGY, INC.
Well Name & Number: OU GB 1W-16-8-22
API Number: 43-047-34656
Location: 1/4, 1/4 NE/NE Sec. 16 T. 8S R. 22E

Geology/Ground Water:

Shenandoah proposes to set 450' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at 3000 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of section 16. This is a shallow well which is approximately 1 1/2 miles to the north. This well should not be affected by the proposed well. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing program should adequately protect any underground sources of useable water.

Reviewer: Brad Hill
Date: 07/25/2002

Surface:

The pre-drill investigation of the surface was performed on 7/23/2002. Surface and minerals are owned by State of Utah. Ed Bonner with SITLA and Floyd Bartlett with DWR were both invited to this meeting on 7/17/2002. Floyd Bartlett with DWR was present. SITLA did not have a representative present. Mr. Bartlett stated that he had no concerns regarding the construction of this location or the drilling of this well. This site will be on an existing location. The wellbore of the Glen Bench 45-16 (a producing Green River oil well) is 51' northwest of this proposed well. Some new construction will be required along the south and east edges of this existing location. Much of the reserve pit will be in fill. The reserve pit for the GB 45-16 has been closed and reclaimed.

Reviewer: David W. Hackford
Date: 7/25/2002

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: SHENANDOAH ENERGY, INC.
WELL NAME & NUMBER: OU GB 1W-16-8-22
API NUMBER: 43-047-34656
LEASE: ML-22049 **FIELD/UNIT:** GLEN BENCH
LOCATION: 1/4, 1/4 NE/NE SEC:16 TWP:8S RNG: 22E
598' F E L 550' F N L
LEGAL WELL SITING: Statewide 400 foot window in center of 40
acre tract and no closer than 920 feet from
another well.
GPS COORD (UTM): 12633085E 4443222N
SURFACE OWNER: SITLA

PARTICIPANTS:

JAN NELSON, RAYLENE SEARLE (SHENANDOAH): FLOYD BARTLETT (DWR)
DAVID HACKFORD (DOGM).

REGIONAL/LOCAL SETTING & TOPOGRAPHY:

SITE IS ON AN EXISTING LOCATION (GB 45-16) A PRODUCING GREEN
RIVER FORMATION OIL WELL. THIS AREA IS LOW ROLLING HILLS AND
SHALLOW DRAWS DRAINING TO THE SOUTHEAST.

SURFACE USE PLAN:

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING.
HUNTING.

PROPOSED SURFACE DISTURBANCE: SITE IS ALREADY AN EXISTING
LOCATION. THERE WILL BE APPROX. 43' TO THE SOUTH AND 30' TO
THE EAST OF NEW CONSTRUCTION.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE
ATTACHED MAP FROM GIS DATABASE

LOCATION OF PRODUCTION FACILITIES AND PIPELINES:
ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND
CONSTRUCTED AFTER WELL IS DRILLED AND COMPLETED. PROPOSED
PIPELINE WILL RUN WEST FOR 0.35 MILES TO THE 2W-16 WELL.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL
WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WASTE MANAGEMENT PLAN:

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

ENVIRONMENTAL PARAMETERS:

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: NATIVE GRASSES, GREASEWOOD, SHADSCALE, (LESS THAN 5% GROUND COVER). RODENTS, COYOTES, SONGBIRDS, RAPTOR, PRONGHORN, DEER.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY WITH STREAKS OF RED CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE ANY INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

RESERVE PIT:

CHARACTERISTICS: 115' BY 85' AND 8' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER WILL BE REQUIRED FOR THE RESERVE PIT.

SURFACE RESTORATION/RECLAMATION PLAN:

AS PER STATE OF UTAH.

SURFACE AGREEMENT: STATE LAND.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WAS INSPECTED BY MONTGOMERY ARCHAEOLOGICAL CONSULTANTS ON 6/12/02. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON FILE.

OTHER OBSERVATIONS/COMMENTS:

THE PRE-DRILL INVESTIGATION TOOK PLACE ON A HOT, SUNNY DAY.

ATTACHMENTS:

PHOTOS OF SITE WILL BE PLACED ON FILE.

DAVID W. HACKFORD
DOGM REPRESENTATIVE

07/23/2002-10:30 AM
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and On-site Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>5</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	15	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	15	
TDS >10000 or Oil Base	20	
Mud Fluid containing high levels of hazardous constituents		<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>
Final Score		<u>20</u>



004



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

July 29, 2002

Shenandoah Energy Inc.

11002 E 17500 S

Vernal, UT 84078

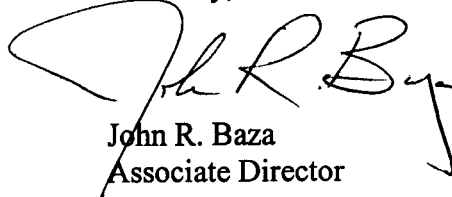
Re: Over and Under Glen Bench 1W-16-8-22 Well, 550' FNL, 598' FEL, NE NE, Sec. 16,
T. 8 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34656.

Sincerely,



John R. Baza
Associate Director

pb

Enclosures

cc: Uintah County Assessor
SITLA

Operator: Shenandoah Energy Inc.
Well Name & Number Over and Under Glen Bench 1W-16-8-22
API Number: 43-047-34656
Lease: ML-22049

Location: NE NE **Sec.** 16 **T.** 8 South **R.** 22 East

Conditions of Approval

1. **General**
Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.
2. **Notification Requirements**
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
 - 24 hours prior to cementing or testing casing
 - 24 hours prior to testing blowout prevention equipment
 - 24 hours prior to spudding the well
 - within 24 hours of any emergency changes made to the approved drilling program
 - prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

 - Dan Jarvis at (801) 538-5338
 - Carol Daniels at (801) 538-5284 (spud)
3. **Reporting Requirements**
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

005

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		2/1/2003
FROM: (Old Operator):		TO: (New Operator):
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341		N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
SU 4W-26-7-21	26	070S	210E	4304734408		Federal	GW	APD	C
WV 10W-35-7-21	35	070S	210E	4304734397		Federal	GW	APD	C
WV EXT 10W-17-8-21	17	080S	210E	4304734561	13744	Federal	GW	P	C
STIRRUP U 8W-5-8-22	05	080S	220E	4304734453		Federal	GW	APD	C
STIRRUP U 6W-5-8-22	05	080S	220E	4304734454		Federal	GW	APD	C
STIRRUP U 7G-5-8-22	05	080S	220E	4304734609		Federal	OW	APD	C
STIRRUP U 9G-5-8-22	05	080S	220E	4304734610		Federal	OW	APD	C
WV 16G-6-8-22	06	080S	220E	4304734404		Federal	OW	APD	C
STIRRUP U 12W-6-8-22	06	080S	220E	4304734449		Federal	GW	APD	C
STIRRUP U 10W-6-8-22	06	080S	220E	4304734451		Federal	GW	APD	C
STIRRUP U 9G-6-8-22	06	080S	220E	4304734611		Federal	OW	APD	C
OU GB 11W-15-8-22	15	080S	220E	4304734648	13822	Federal	GW	DRL	C
OU GB 10W-16-8-22	16	080S	220E	4304734616		State	GW	APD	C
OU GB 14W-16-8-22	16	080S	220E	4304734619		State	GW	APD	C
OU GB 16W-16-8-22	16	080S	220E	4304734655	13815	State	GW	DRL	C
OU GB 1W-16-8-22	16	080S	220E	4304734656		State	GW	APD	C
OU GB 8W-16-8-22	16	080S	220E	4304734660	13769	State	GW	DRL	C
OU GB 8W-17-8-22	17	080S	220E	4304734647		Federal	GW	APD	C
OU GB 16W-20-8-22	20	080S	220E	4304734633		Federal	GW	APD	C
OU WIH 15W-21-8-22	21	080S	220E	4304734634		Federal	GW	APD	C

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/19/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151
- If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 9/11/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/11/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3106
(UT-924)

July 21, 2003

Memorandum

To: Vernal Field Office
From: **ACTING** Chief, Branch of Minerals Adjudication
Subject: Name Change Approval

Attached is an approved copy of the name change from BLM-Eastern States, which is recognized by the Utah State Office. We have updated our records to reflect:

The name change from Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated is effective July 23, 1999. The BLM Bond Number is ESB000024.

Mary Higgins
Acting Chief, Branch of
Minerals Adjudication

Enclosure

1. Eastern States Letter
2. List of leases

cc: MMS, James Sykes, PO Box 25165, M/S 357 B1, Denver CO 80225
State of Utah, DOGM, Earlene Russell (Ste. 1210), Box 145801, SLC UT 84114
Teresa Thompson (UT-922)
Joe Incardine (UT-921)

RECEIVED

JUL 23 2003

DIV. OF OIL, GAS & MINING

Exhibit of Leases

UTSL-065342	UTU-0825	UTU-65472	UTU-74971
UTSL-065429	UTU-0826	UTU-65632	UTU-74972
UTSL-066409-A	UTU-0827	UTU-67844	UTU-75079
UTSL-066446	UTU-0828	UTU-68217	UTU-75080
UTSL-066446-A	UTU-0829	UTU-68218	UTU-75081
UTSL-066446-B	UTU-0830	UTU-68219	UTU-75082
UTSL-066791	UTU-0933	UTU-68220	UTU-75083
UTSL-069330	UTU-0971	UTU-68387	UTU-75084
UTSL-070932-A	UTU-0971-A	UTU-68620	UTU-75085
UTSL-071745	UTU-01089	UTU-69001	UTU-75086
UTSL-071963	UTU-02025	UTU-70853	UTU-75087
UTSL-071964	UTU-02030	UTU-70854	UTU-75088
UTSL-071965	UTU-02060	UTU-70855	UTU-75102
	UTU-02148	UTU-70856	UTU-75103
UTU-046	UTU-02149	UTU-71416	UTU-75116
UTU-055	UTU-02510-A	UTU-72066	UTU-75243
UTU-057	UTU-09613	UTU-72109	UTU-75503
UTU-058	UTU-09617	UTU-72118	UTU-75678
UTU-059	UTU-09809	UTU-72598	UTU-75684
UTU-080	UTU-011225-B	UTU-72634	UTU-76278
UTU-081	UTU-011226	UTU-72649	UTU-75760
UTU-082	UTU-011226-B	UTU-73182	UTU-75939
UTU-093	UTU-012457	UTU-73443	UTU-76039
UTU-0116	UTU-012457-A	UTU-73456	UTU-76482
UTU-0558	UTU-018260-A	UTU-73680	UTU-76507
UTU-0559	UTU-022158	UTU-73681	UTU-76508
UTU-0560	UTU-025960	UTU-73684	UTU-76721
UTU-0561	UTU-025962	UTU-73686	UTU-76835
UTU-0562	UTU-025963	UTU-73687	UTU-77063
UTU-0566	UTU-029649	UTU-73698	UTU-77301
UTU-0567	UTU-65471	UTU-73699	UTU-77308
UTU-0568	UTU-65472	UTU-73700	UTU-78021
UTU-0569	UTU-103144	UTU-73710	UTU-78028
UTU-0570	UTU-140740	UTU-73914	UTU-78029
UTU-0571	UTU-14219	UTU-73917	UTU-78214
UTU-0572	UTU-14639	UTU-74401	UTU-78215
UTU-0629	UTU-16551	UTU-74402	UTU-78216
UTU-0802	UTU-28652	UTU-74407	UTU-80636
UTU-0803	UTU-42050	UTU-74408	UTU-80637
UTU0804	UTU-43915	UTU-74419	UTU-80638
UTU0805	UTU-43916	UTU-74493	UTU-80639
UTU0806	UTU-43917	UTU-74494	UTU-80640
UTU0807	UTU-43918	UTU-74495	
UTU0809	UTU-56947	UTU-74496	
UTU0810	UTU-65276	UTU-74836	
UTU-0823	UTU-65404	UTU-74842	
UTU-0824	UTU-65471	UTU-74968	

SEI (N4235) to QEP (N2460)

well name	Sec	T	R	api DOGM	Entity	type	stat	
WV 14W-4-8-21	04	080S	210E	4304734040		Federal	GW	APD C
WV 16W-4-8-21	04	080S	210E	4304734041		Federal	GW	APD C
WV 5W-36-7-21	36	070S	210E	4304734099	13807	State	GW	DRL C
WV 16W-31-7-22	31	070S	220E	4304734257		Federal	GW	APD C
RED WASH 16W-19-7-22	19	070S	220E	4304734258		Federal	GW	APD C
WV 9W-16-7-21	16	070S	210E	4304734324		State	GW	APD
GH 6W-20-8-21	20	080S	210E	4304734331		Federal	GW	APD C
WV 10W-23-8-21	23	080S	210E	4304734341	13766	Federal	GW	PA C
WV 11W-23-8-21	23	080S	210E	4304734342		Federal	GW	APD C
WV 13W-23-8-21	23	080S	210E	4304734344		Federal	GW	APD C
WV 14W-23-8-21	23	080S	210E	4304734345		Federal	GW	APD C
WV 15W-23-8-21	23	080S	210E	4304734346		Federal	GW	APD C
WV 7W-31-7-22	31	070S	220E	4304734379		Federal	GW	APD C
WV 9W-30-7-22	30	070S	220E	4304734381		Federal	GW	APD C
WV 10W-25-7-21	25	070S	210E	4304734382		Federal	GW	APD C
WV 10W-26-7-21	26	070S	210E	4304734383		Federal	GW	APD C
WV 14W-30-7-22	30	070S	220E	4304734384	13750	Federal	GW	DRL C
WV 15W-27-7-21	27	070S	210E	4304734385		Federal	GW	APD C
GH 8W-20-8-21	20	080S	210E	4304734393		Federal	GW	APD C
SU PURDY 3W-30-7-22	30	070S	220E	4304734394		Federal	GW	APD C
STIRRUP UNIT 10G-5-8-22	05	080S	220E	4304734396		Federal	OW	APD C
WV 10W-35-7-21	35	070S	210E	4304734397		Federal	GW	APD C
WV 16G-6-8-22	06	080S	220E	4304734404		Federal	OW	APD C
SU 4W-26-7-21	26	070S	210E	4304734408		Federal	GW	APD C
STIRRUP U 12W-6-8-22	06	080S	220E	4304734449		Federal	GW	APD C
STIRRUP U 10W-6-8-22	06	080S	220E	4304734451		Federal	GW	APD C
STIRRUP U 8W-5-8-22	05	080S	220E	4304734453		Federal	GW	APD C
STIRRUP U 6W-5-8-22	05	080S	220E	4304734454		Federal	GW	APD C
WV EXT 10W-17-8-21	17	080S	210E	4304734561	13744	Federal	GW	P C
STIRRUP U 7G-5-8-22	05	080S	220E	4304734609		Federal	OW	APD C
STIRRUP U 9G-5-8-22	05	080S	220E	4304734610		Federal	OW	APD C
STIRRUP U 9G-6-8-22	06	080S	220E	4304734611		Federal	OW	APD C
OU GB 10W-16-8-22	16	080S	220E	4304734616		State	GW	APD C
OU GB 14W-16-8-22	16	080S	220E	4304734619		State	GW	APD C
OU GB 16W-20-8-22	20	080S	220E	4304734633		Federal	GW	APD C
OU WIH 15W-21-8-22	21	080S	220E	4304734634		Federal	GW	APD C
OU GB 8W-17-8-22	17	080S	220E	4304734647		Federal	GW	APD C
OU GB 11W-15-8-22	15	080S	220E	4304734648	13822	Federal	GW	DRL C
OU GB 16W-16-8-22	16	080S	220E	4304734655	13815	State	GW	DRL C
OU GB 1W-16-8-22	16	080S	220E	4304734656		State	GW	APD C
OU GB 8W-16-8-22	16	080S	220E	4304734660	13769	State	GW	DRL C
OU GB 3W-15-8-22	15	080S	220E	4304734677		Federal	GW	APD C
OU GB 4W-21-8-22	21	080S	220E	4304734685	13772	Federal	GW	P C
OU WIH 2W-21-8-22	21	080S	220E	4304734687	13837	Federal	GW	PA C
OU GB 9W-16-8-22	16	080S	220E	4304734692		State	GW	APD C
OU WIH 1W-21-8-22	21	080S	220E	4304734693		Federal	GW	APD C
OU GB 7G-19-8-22	19	080S	220E	4304734694		Federal	OW	APD C
OU GB 5G-19-8-22	19	080S	220E	4304734695	13786	Federal	OW	P C
OU GB 8W-20-8-22	20	080S	220E	4304734706		Federal	GW	APD C
OU SG 14W-15-8-22	15	080S	220E	4304734710	13821	Federal	GW	DRL C
OU SG 15W-15-8-22	15	080S	220E	4304734711	13790	Federal	GW	DRL C
OU SG 16W-15-8-22	15	080S	220E	4304734712	13820	Federal	GW	DRL C
OU SG 4W-15-8-22	15	080S	220E	4304734713	13775	Federal	GW	DRL C
OU SG 12W-15-8-22	15	080S	220E	4304734714	13828	Federal	GW	DRL C
OU SG 5W-15-8-22	15	080S	220E	4304734715		Federal	GW	APD C
OU SG 6W-15-8-22	15	080S	220E	4304734716	13865	Federal	GW	PA C
OU SG 8W-15-8-22	15	080S	220E	4304734717	13819	Federal	GW	DRL C

SEI (N4235) to QEP (N2460)

well_name	Sec	T	R	api DOGM	Entity	type	stat	
OU SG 9W-15-8-22	15	080S	220E	4304734718	13773	Federal	GW	P C
OU SG 1W-15-8-22	15	080S	220E	4304734720		Federal	GW	APD C
OU SG 2W-15-8-22	15	080S	220E	4304734721		Federal	GW	APD C
OU SG 7W-15-8-22	15	080S	220E	4304734722		Federal	GW	APD C
GYP SUM HILLS 13HG-17-8-22	17	080S	210E	4304734723	13765	Federal	GW	DRL C
OU GB 14SG-29-8-22	29	080S	220E	4304734743		Federal	GW	APD C
OU GB 16SG-29-8-22	29	080S	220E	4304734744	13771	Federal	GW	DRL C
OU GB 13W-10-8-22	10	080S	220E	4304734754	13774	Federal	GW	P C
OU GB 6W-21-8-22	21	080S	220E	4304734755	13751	Federal	GW	P C
OU SG 10W-10-8-22	10	080S	220E	4304734764		Federal	GW	DRL C
OU SG 15W-10-8-22	10	080S	220E	4304734765	13849	Federal	GW	DRL C
OU GB 14W-10-8-22	10	080S	220E	4304734768	13781	Federal	GW	P C
OU SG 16W-10-8-22	10	080S	220E	4304734784	13777	Federal	GW	P C
OU GB 15G-16-8-22	16	080S	220E	4304734829		State	OW	DRL
BASER WASH 6W-7-7-22	07	070S	220E	4304734837		Federal	GW	APD C
GB 5G-15-8-22	15	080S	220E	4304734876		Federal	OW	APD C
GB 4G-21-8-22	21	080S	220E	4304734882		Federal	OW	APD C
W IRON HORSE 2W-28-8-22	28	080S	220E	4304734883		Federal	GW	APD C
OU GB 8WX-29-8-22	29	080S	220E	4304734884		Federal	GW	APD C
GB 7W-36-8-21	36	080S	210E	4304734893		State	GW	APD
GB 3W-36-8-21	36	080S	210E	4304734894	13791	State	GW	DRL
NC 8M-32-8-22	32	080S	220E	4304734897		State	GW	APD
NC 3M-32-8-22	32	080S	220E	4304734899		State	GW	APD
N DUCK CREEK 3M-27-8-22	27	080S	210E	4304734900		Federal	GW	APD C
N DUCK CREEK 9M-22-8-22	22	080S	210E	4304734901		Federal	GW	APD C
N DUCK CREEK 11M-22-8-22	22	080S	210E	4304734902		Federal	GW	APD C
NDC 10W-25-8-21	25	080S	210E	4304734923		Federal	GW	APD C
GB 5W-36-8-21	36	080S	210E	4304734925	13808	State	GW	DRL
GB 4W-36-8-21	36	080S	210E	4304734926		State	GW	APD
WV EXT 1W-17-8-21	17	080S	210E	4304734927		Federal	GW	APD C
WV EXT 8W-17-8-21	17	080S	210E	4304734929	13792	Federal	GW	DRL C
NDC 11M-27-8-21	27	080S	210E	4304734952	13809	Federal	GW	DRL C
NDC 9M-27-8-21	27	080S	210E	4304734956		Federal	GW	APD C
NDC 1M-27-8-21	27	080S	210E	4304734957		Federal	GW	APD C
NDC 15M-28-8-21	28	080S	210E	4304734958		Federal	GW	APD C
NC 11M-32-8-22	32	080S	220E	4304735040		State	GW	NEW
RED WASH U 34-27C	27	070S	240E	4304735045		Federal	GW	APD C
WRU EIH 10W-35-8-22	35	080S	220E	4304735046	13544	Federal	GW	DRL C
WRU EIH 9W-26-8-22	26	080S	220E	4304735047		Federal	GW	APD C
WRU EIH 15W-26-8-22	26	080S	220E	4304735048		Federal	GW	APD C
WRU EIH 1W-35-8-22	35	080S	220E	4304735049		Federal	GW	APD C
WRU EIH 9W-35-8-22	35	080S	220E	4304735050		Federal	GW	APD C
WRU EIH 7W-35-8-22	35	080S	220E	4304735051		Federal	GW	APD C
WRU EIH 2W-35-8-22	35	080S	220E	4304735052		Federal	GW	APD C

006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22049
2. NAME OF OPERATOR: QEP UINTA BASIN, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 550' FNL598' FEL		8. WELL NAME and NUMBER: OU GB 1W-16-8-22
5. PHONE NUMBER: (435) 781-4309		9. API NUMBER: 4304734656
6. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 8S 22E S		10. FIELD AND POOL, OR WILDCAT: WHITE RIVER

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

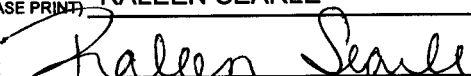
QEP UINTA BASIN INC. HEREBY REQUESTS A ONE YEAR EXTENSION ON THE APD FOR THE OU GB 1W-16-8-22.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 09-15-03

By: 

COPY SENT TO OPERATOR
Date: 9-12-03
Initials: CHD

NAME (PLEASE PRINT) <u>RALEEN SEARLE</u>	TITLE <u>REGULATORY AFFAIRS ANALYST</u>
SIGNATURE 	DATE <u>8/12/2003</u>

(This space for State use only)

RECEIVED
AUG 13 2003
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-34656
Well Name: OU GB 1W-16-8-22
Location: 550' FNL, 598' FEL SECTION 16, T8S, R22E
Company Permit Issued to: SHENANDOAH ENERGY INC.
Date Original Permit Issued: 7/29/2002

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

8/12/2003

Date

Title: REGULATORY AFFAIRS ANALYST

Representing: QEP UINTA BASIN INC. FORMERLY (SEI)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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2. NAME OF OPERATOR: QEP UINTA BASIN, INC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 550' FNL 598' FEL		8. WELL NAME and NUMBER: OU GB 1W-16-8-22
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 8S 22E S		9. API NUMBER: 43047346 56
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: GLEN BENCH
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>TD CHANGE</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP Uinta Basin Inc. proposes to drill this well to the Mesaverde formation. The proposed TD was 7675', the new proposed TD will be 9450'. Please see attachments for BOP, casing and cementing changes.

QEP Uinta Basin, Inc. proposes to change the name on the OU GB 1W-16-8-22 to the GB 1MU-16-8-22.

**Approved by the
Utah Division of
Oil, Gas and Mining**
Date: 06-14-04
By: [Signature]

COPY SENT TO OPERATOR
Date: 7-14-04
Initials: CHD

NAME (PLEASE PRINT) John Busch TITLE Operations
SIGNATURE [Signature] DATE 6/3/2004

(This space for State use only)

RECEIVED**JUN 04 2004**

ONSHORE OIL & GAS ORDER NO. 1
QEP Uinta Basin, Inc.
OU GB 1W-16-8-22

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Prod. Phase Anticipated</u>
Uinta	Surface	
Green River	2524'	
Mahogany	3479'	
Wasatch	5974'	
Mesa Verde	8746'	
TD	9450'	

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Mesa Verde	9450'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right #36125 or where possible a fresh water line (poly pipe) will be laid in the access road to each location to supply fresh water for drilling purposes.

DRILLING PROGRAM

3. Operator's Specification for Pressure Control Equipment:

- A. 3,000 psi W.P. Double Gate BOP or Single Gate BOP (schematic attached)
- B. Functional test daily
- C. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 3M system and individual components shall be operable as designed.

4. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Type</u>	<u>Weight</u>
Surface	450'	12 1/4"	9-5/8"	J-55	36 lb/ft (new) LT&C
Production	TD'	7 -7/8"	4 -1/2"	M-80	11.60 lb/ft (new)LT&C M-80

5. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
If drilling with air the following will be used:
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').

DRILLING PROGRAM

- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

6. Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

6. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

Logging – Mud logging – 4500 to TD
GR-SP-Induction
Neutron Density
MRI

- C. Formation and Completion Interval: Mancos interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

ONSHORE OIL & GAS ORDER NO. 1

QEP Uinta Basin, Inc.

OU GB 1W-16-8-22

DRILLING PROGRAM

7. Cementing Program

<u>Casing</u>	<u>Volume</u>	<u>Type & Additives</u>
Surface	257sx	Class "G" single slurry mixed to 15.6 ppg, yield = 1.19 cf/sx. Fill to surface with 160 cf (685 sx) calculated. Tail plug used. Allowed to set under pressure
Production	Lead-614sx* Tail-1198sx*	Lead/Tail oilfield type cement circulated in place . Tail slurry: Class "G" + gilsonite and additives as required, mixed to 14.8 ppg, yield = 1.34 cf/sx. Fill to 4821' ($\pm 500'$ above top of Wasatch). Cement Characteristics: Lead slurry: Class "G" + extender and additives as required, mixed to 11.0 ppg, yield = 3.82 cf/sx. Fill to surface. Tail plug used. Allowed to set under pressure.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

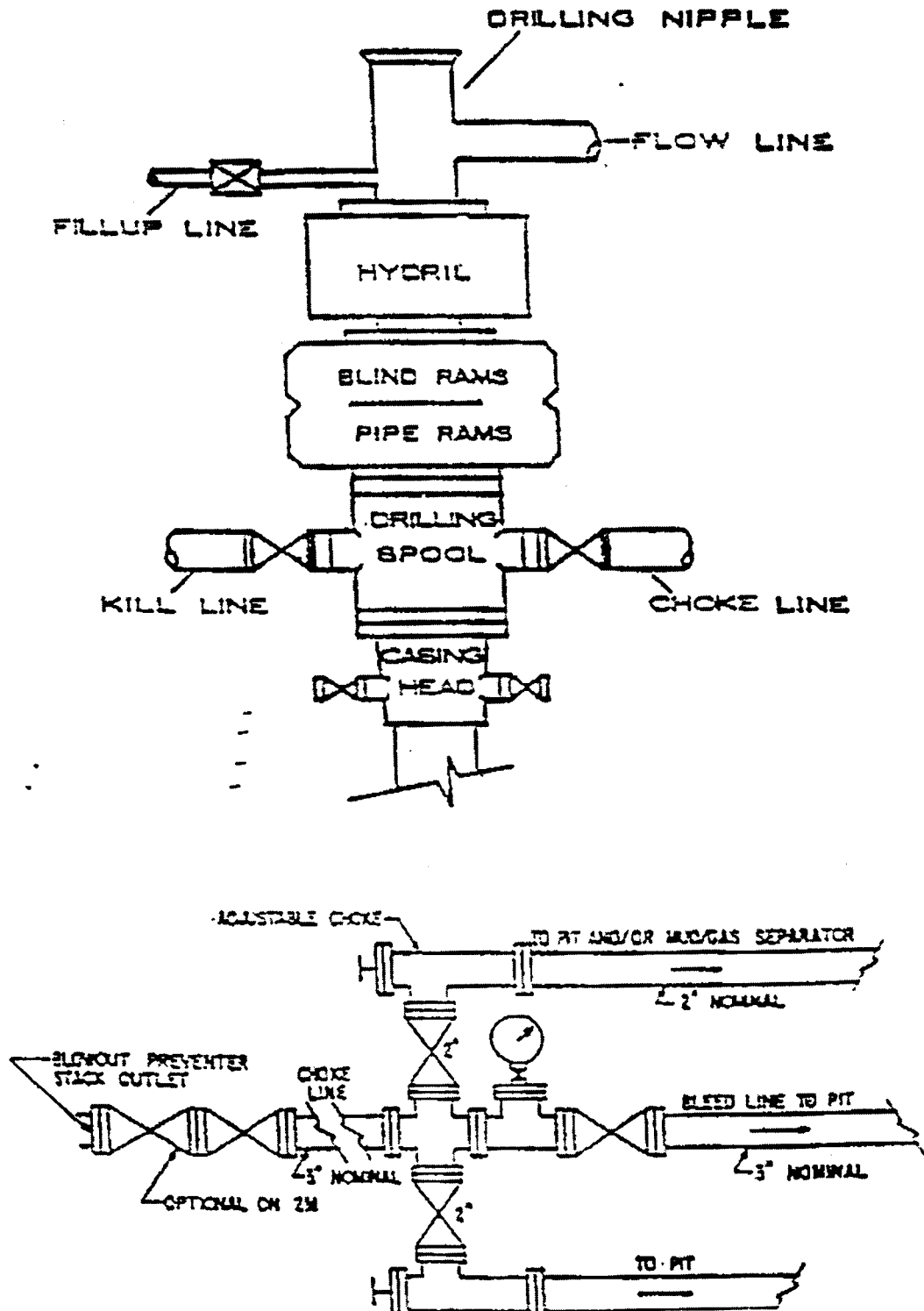
8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 4098.0 psi. Maximum anticipated bottom hole temperature is 140° F.

ONSHORE OIL & GAS ORDER NO. 1
QEP Uinta Basin, Inc.
OU GB 1W-16-8-22

DRILLING PROGRAM

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK

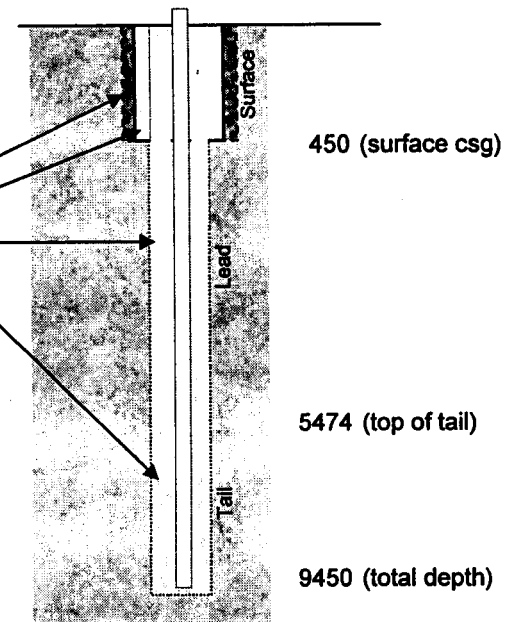


Cement Calculations V2

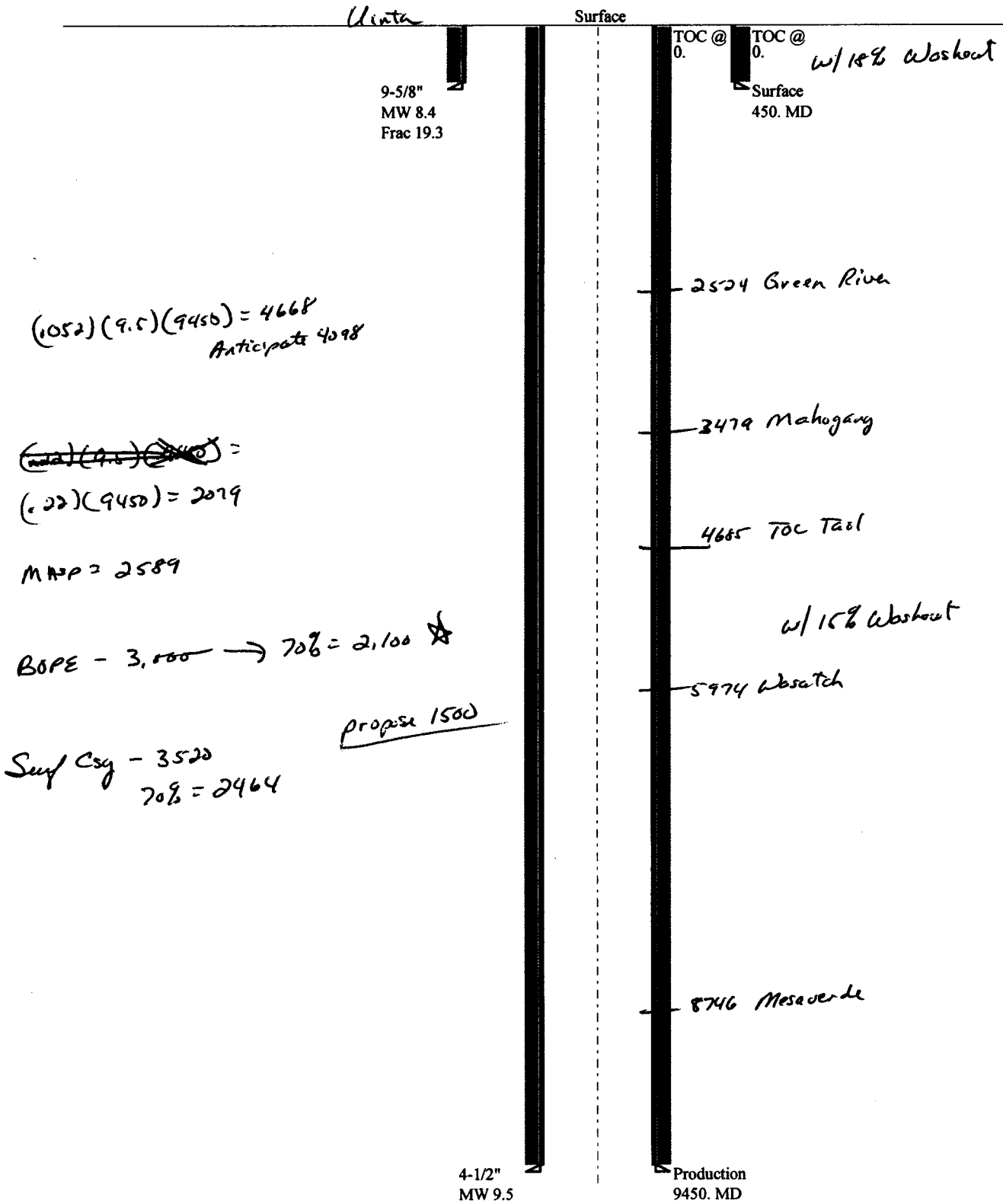
x-rg (3jul01)

Interval	wo factor	hole dia	csg dia	cf/f	yield	sxs/ft	feet	sxs
Surf Csg	1.2	12.25	9.625	0.673	1.18	0.571	450	257
Lead1	1.2	9.625	4.5	0.617	3.81	0.162	450	73
Lead2	1.2	7.875	4.5	0.377	3.81	0.099	5474	541
Tail	1.2	7.875	4.5	0.377	1.25	0.301	3976	1198

surf csg	257 sxs
total lead	614 sxs
total tail	1198 sxs
total	2069 sxs



Casing Schematic



Well name:
Operator: **QEP Uinta Basin Inc.**
String type: **Surface**
Location: **Uintah County**

06-04 QEP GB 1MU-16-8-22

Project ID:
43-047-34656

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 81 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 450 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 396 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 450 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 394 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,450 ft
Next mud weight: 9.500 ppg
Next setting BHP: 4,664 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 450 ft
Injection pressure 450 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	450	9.625	36.00	J-55	LT&C	450	450	8.796	32
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	196	2020	10.287	450	3520	7.82	14	453	31.93 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Phone: 810-538-5280
FAX: 801-359-3940

Date: June 29, 2004
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 450 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

06-04 QEP GB 1MU-16-8-22

Operator: QEP Uinta Basin Inc.

String type: Production

Project ID:

43-047-34656

Location: Uintah County

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 207 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface
pressure: 3,530 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 4,664 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 8,108 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9450	4.5	11.60	M-80	LT&C	9450	9450	3.875	219.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4664	6350	1.362	4664	7780	1.67	94	267	2.84 B

Prepared Clinton Dworshak
by: Utah Div. of Oil & Mining

Phone: 810-538-5280
FAX: 801-359-3940

Date: June 29, 2004
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9450 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22049
2. NAME OF OPERATOR: QEP Uinta Basin, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 11002 E 17500 S CITY Vernal STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 550' FNL 598' FEL		8. WELL NAME and NUMBER: OUGB 1W-16-8-22
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 T8S 22E		9. API NUMBER: 4304734656
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: WHITE RIVER
STATE: UTAH		

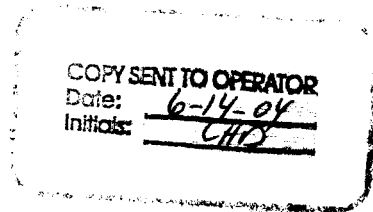
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: APD Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP Uinta Basin, Inc. hereby requests a 1 year extension on the APD for the OUGB 1W-16-8-22.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 6-14-04
By: [Signature]



NAME (PLEASE PRINT) John Busch TITLE Operations
SIGNATURE [Signature] DATE 6/7/2004

(This space for State use only)

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JUN 8 2004

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-34656
Well Name: OUGB 1W-16-8-22
Location: 550' FNL 598' FEL NENE SEC 16 T8S R22E
Company Permit Issued to: QEP UINTA BASIN, INC.
Date Original Permit Issued: 7/10/2002
29

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

John Bunch
Signature

6/7/2004
Date

Title: OPERATIONS

Representing: QEP UINTA BASIN, INC.

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JUN 08 2004
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22049
2. NAME OF OPERATOR: QEP Uinta Basin, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 11002 E 17500 S CITY Vernal STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 550' FNL 598' FEL		8. WELL NAME and NUMBER: GB 1MU 16-8-22
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 8S 22E S		9. API NUMBER: 4304734656
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: WHITE RIVER
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SPUD SUNDRY
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well was spud on 7/19/04. Set 25' 14" conductor. Drill 12-1/4" hole to 485'KB. Ran 11 jts 9-5/8" J-55 36# csg. Land shoe @ 479'.

Ran 225 sxs Class 'G' cmt.

NAME (PLEASE PRINT) <u>Dahn F. Caldwell</u>	TITLE <u>Authorized Representative</u>
SIGNATURE <u><i>Dahn F. Caldwell</i></u>	DATE <u>7/28/2004</u>

(This space for State use only)

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(See Instructions on Reverse Side)

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JUL 30 2004

DIV. OF OIL, GAS & MINING

WEEKLY OPERATIONS REPORT – July 29, 2004

UINTA BASIN*TOSS R 22E S-16
43-047-34656***"Drilling Activity – Operated" 7-22-04**

- Drilling at 8221' on GH 4MU-20-8-21, (100.0%WI) Wasatch/Kmv Test, PTD 9,900', Day 8 with Patterson #51.
- Drilling at 5998'TD on GB 1MU-16-8-22, (77.50%WI) Wasatch/Kmv test. PTD 9,400', Day 10 with Patterson #77.
- Cementing 4-1/2" casing at 8412'TD on WRU EIH 5MU-25-8-22 (43.75% WI) Wasatch/Kmv test. PTD 8600' Day 8 with Patterson #52.
- Drilling at 8325' on NBE 4ML-26-9-23 (43.75% WI) Lower Mv test. PTD 8650'. Day 6 with True #26.

Completions & New Wells to Sales 7-29-04:

SU BW 6M-7-7-22: 3 Lower MV fracs to sales 7/14/04; 800 mcfpd @ 1100/1420 psi w/ 13 BOPD & 20 BWPD on a 10/64" choke.

GB 14M-28-8-21: Drilled up composite BP, cement stringers and DV tool. Clean out to bottom. Ran cased-hole logs Wednesday w/ Schlumberger. Cement looks questionable on the bottom part of the hole. Further pressure testing today while the completion teams reviews the log results.

SG 12MU-23-8-22: Frac'd 5 zones on 7/16/04 (3 MV and 2 Wasatch); to sales 7/22/04; flowing 1587 mcfpd on a 13/64" w/ FTP of 1533 psi & 1781 psi CP w/ 77 BWPD & 7 BOPD.

GB 14MU-16-8-22: 5 zones fraced on Saturday (7/24/04) (1 MV and 4 Wasatch; 333,000# proppant). Turn to production today. Recovering < 10 BWPH w/ 2150 BLLTR. FTP 800#, SICP 1175# on a 20/64" choke.

WRU 12MU-25-8-22: Leed rig on well. Fraced 3 zones on Wednesday. (2 MV and 1 Wasatch, 253,000# proppant). FCP 300# @ 6 am on a 32/64" choke. 30 - 50 BWPH. 370 BLR. 2520 BLLTR. Lube in kill plug today and prepare to drill out three plugs on Friday.

From: "Dahn Caldwell" <Dahn.Caldwell@questar.com>
To: "Carol Daniels" <caroldaniels@utah.gov>
Date: 7/30/04 2:40PM

Hi Carol,

Have a great weekend!

Dahn Caldwell
Completion Dept. Admin. Asst.
435-781-4359 Redwash Office
435-781-4342 Wonsits Valley Office
435-828-0342 Cell Phone

CC: "Kevin O'Connell" <Kevin.OConnell@questar.com>

011

State of Utah
Division of Oil, Gas and Mining

ENTITY ACTION FORM - FORM 6

OPERATOR: QEP Uinta Basin, Inc.
ADDRESS: 11002 East 17500 South
Vernal, Utah 84078-8526

OPERATOR ACCT. No. N-2460

(435)781-4300

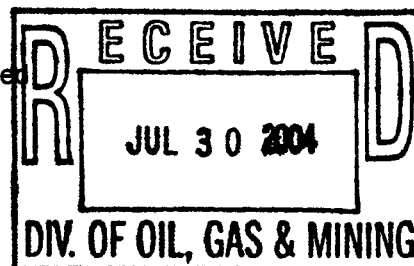
Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
A	99999	14251	43-047-34656	GB 1MU 16 8 22	NENE	16	8S	22E	Uintah	7/19/04	8/5/04
WELL 1 COMMENTS: GREEN RIVER - Unit * MVRD - Non-unit formation											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)



John F. Caldwell
Signature

Admin. Asst. _____ 7/28/04
Title _____ Date

Phone No. (435)781-4342

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.
ML 22049

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
GB 1MU 16 8 22

9. API Well No.
43-047-34656

10. Field and Pool, or Exploratory
GLEN BENCH

11. County or Parish, and State
UINTAH COUNTY, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
QEP UINTA BASIN INC

Contact: ANN PETRIK
E-Mail: ann.petrik@questar.com

3a. Address
11002 EAST 17500 SOUTH
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 435.781.4306
Fx: 435.781.4329

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 16 T8S R22E NENE 550FNL 598FEL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THIS WELL COMMENCED PRODUCTION ON 8/25/04.

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OCT 28 2004

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #36581 verified by the BLM Well Information System
For QEP UINTA BASIN INC, sent to the Vernal

Name (Printed/Typed) ANN PETRIK

Title OFFICE ADMINISTRATOR II

Signature

(Electronic Submission)

Date 09/23/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

WEEKLY OPERATIONS REPORT – AUGUST 5, 2004**UINTA BASIN**

*T08S R22E S6
43-047-34656*

"Drilling Activity – Operated" 8-5-04

- Drilling at 731' on WVX 8MU-19-8-21, (100.0%WI) Wasatch/Kmv Test, PTD 10,050', Day 1 with Patterson #51.
- Logging at 9575'TD on GB 1MU-16-8-22, (77.50%WI) Wasatch/Kmv test. PTD 9,400', Day 10 with Patterson #77. Note: This rig is to be Released and going to work for Bill Barrett Corp. under previous contract arrangements.
- Directional Drilling at 5386' on WV 15G-9-8-21 (100.00% WI) G-1 Lime Horizontal Redrill. PTD 7751'MD (Lateral #1) Day 3 with Patterson #52.
- Drilling at 5155' on NBE 12ML-10-9-23 (43.75% WI) Lower Mv test. PTD 9000'. Day 2 with True #26.

Completions & New Wells to Sales 8-5-04:

GB 14M-28-8-21: Perforate lowest zone (Mancos B) Monday. SITP 1750 psi this a.m. (SICP 2000 psi); con't swabbing, swabbed down to 6000' started to flow dry gas on an open choke at low flowing pressures; set to acidize perfs Friday.

SG 6MU-23-8-22: Fracced 5 zones (2 MV & 3 Wasatch) Tues. w/ 199,000# proppant. Flowed back all night. 400 BLR. 2380 BLLTR.; lube in a kill plug, TIH and drill out all plugs Thurs.

NBE 7ML-17-9-23: Prep to frac. on Thursday. 5 zones. (3 slickwater fracs, 2 conventional fracs.). First slickwater frac. pressured out w/ 50 Mlbs. out of 84 Mlbs., but did get flushed to perfs (was pumping @ 60 BPM and utilizing all HHP on loc.) 2nd stage (86 Mlbs.) was put away w/ 20# Delta system up to 5 PPG (this is the MV w/ good perm). Con't. frac'ing next stage Thurs.

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From: "Dahn Caldwell" <Dahn.Caldwell@questar.com>
To: "Carol Daniels" <caroldaniels@utah.gov>
Date: 8/6/04 2:09PM
Subject: Weekly Summary Report for QEP - Uintah Basin

Have a great weekend!

Dahn Caldwell
Completion Dept. Admin. Asst.
435-781-4359 Redwash Office
435-781-4342 Wonsits Valley Office
435-828-0342 Cell Phone

014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED

JAN 25 2005

AMENDED REPORT ☐ FORM 8
(highlight changes)DIV OF OIL, GAS & MINING
LEASE DESIGNATION AND SERIAL NUMBER:
ML 22049

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR: QEP, UINTA BASIN, INC.		8. WELL NAME and NUMBER: GB 1MU 16 8 22
3. ADDRESS OF OPERATOR: 11002 E 17500 S CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304734656
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: 550 FNL 598 FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 550 FNL 598 FEL AT TOTAL DEPTH: 550 FNL 598 FEL		10. FIELD AND POOL, OR WILDCAT: GLEN BENCH
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 8 22 S
		12. COUNTY: UINTAH 13. STATE: UTAH

14. DATE SPUDDED: 7/19/2004	15. DATE T.D. REACHED: 8/5/2004	16. DATE COMPLETED: 8/25/2004	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): KB
18. TOTAL DEPTH: MD 9,650 TVD 9,650	19. PLUG BACK T.D.: MD 9,606 TVD 9,606	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL, SPECTRAL DENSITY DSN, HRI				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12-1/4	9-5/8 J-55	36	0	485		G 225			
7-7/8	4-1/2 M-80	11.6	486	9,650		1,800			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	9.434							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) See Attachment 1								Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
See Attachment #1	

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|---|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input type="checkbox"/> OTHER: _____ | |

30. WELL STATUS:

Flowing

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/25/2004	TEST DATE: 9/1/2004	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 6	GAS – MCF: 1,035	WATER – BBL: 130	PROD. METHOD:
CHOKE SIZE: 20.5	TBG. PRESS. 545	CSG. PRESS. 977	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	2.525
				Mahogany	3.475
				Wasatch	5.945
				Mesa Verde	8.725
				TD	9.650

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Jim SimontonTITLE Completion SupervisorSIGNATURE DATE 1/17/2005

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

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GB # 1MU-16-8-22 – Attachment Page 1

PERFORATION DETAIL:

Open Perfs	Stimulation					Perf Status
6820' – 6822' } 6967' – 6974' }	Frac w/	70,100	Lbs in	31,794	Gals	Open – Wasatch
7230' – 7246'	Frac w/	100,000	Lbs in	41,580	Gals	Open - Wasatch
7570' – 7575'	Frac w/	35,000	Lbs in	18,354	Gals	Open - Wasatch
8736' – 8745' } 8784' – 8787' } 8798' – 8801' }	Frac w/	50,400	Lbs in	27,972	Gals	Open – Mesa Verde
9299' – 9302' } 9355' – 9368' }	Frac w/	103,000	Lbs in	46,704	Gals	Open – Mesa Verde
9476' – 9485' } 9520' – 9527' }	Frac w/	70,000	Lbs in	49,014	Gals	Open – Mesa Verde
Total SLF		428,500	Lbs in	215,418	Gals	

FIELD: Glen Bench

GL: 4,907 ' KBE: 4,921 '

Spud Date: 7-19-04 Completion date: 8-25-04

Well: GB 1MU-16-8-22

TD: 9,650 ' PBTD: 9,605 '

Current Well Status: Flowing Gas Well

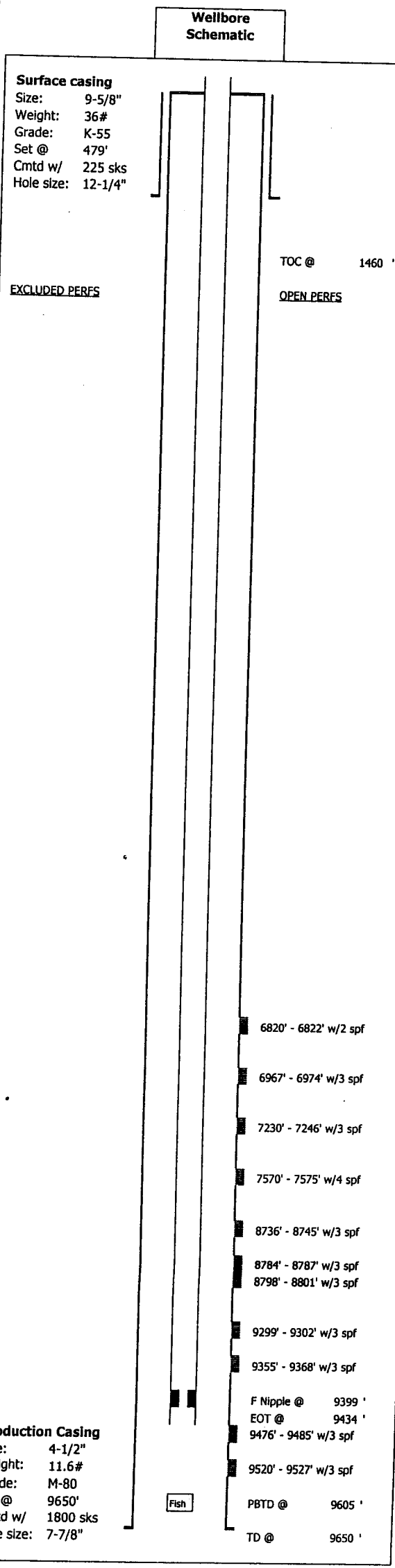
Location: NENE Sec. 16, T8S, R22E

API#: 43-047-34656

Utah County, Utah

Reason for Pull/Workover:
Initial Completion

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Tubing Landing Detail:

Description	Size	Footage	Depth
KB		14.00	14.00
Hanger		0.75	14.75
289 jts.	2-3/8"	9,383.83	9,398.58
F-nipple w/1.81" ID	2-3/8"	0.91	9,399.49
1 jt.	2-3/8"	32.48	9,431.97
Pump-off sub		2.10	9,434.07
EOT @			9,434.07

Tubing Information:

Condition:

New: ☒ Used: ☐ Rerun: ☐

Grade: J-55

Weight (#/ft): 4.7#

Sucker Rod Detail:

Size	#Rods	Rod Type

Rod Information

Condition:

New: ☐ Used: ☐ Rerun: ☐

Grade:

Manufacture:

Pump Information:

API Designation

Example: 25 x 150 x RHAC X 20 X 6 X 2

Pump SN#: Original Run Date:

RERUN NEW RUN

ESP Well	Flowing Well
Cable Size: <input type="text"/>	SN @ <input type="text"/> 9399 '
Pump Intake @ <input type="text"/>	PKR @ <input type="text"/>
End of Pump @ <input type="text"/>	EOT @ <input type="text"/> 9434 '

Wellhead Detail: Example: 7-1/16" 3000#

Other:

Hanger: Yes ☒ No ☐

SUMMARY

Mesa Verde

Zone 1 - 9520' - 9527' & 9476' - 9485'. Frac: 70,000# PR-6000 20/40.
Zone 2 - 9355' - 9368' & 9299' - 9302'. Frac: 103,000# PR-6000 20/40.
Zone 3 - 8798' - 8801', 8784' - 8787' & 8736' - 8745'. Frac: 50,400# PR-6000 20/40.
Wasatch
Zone 4 - 7570' - 7575'. Frac: 35,000# 20/40 Ottawa.
Zone 5 - 7230' - 7246'. Frac: 100,000# 20/40 Ottawa.
Zone 6 - 6967' - 6974' & 6820' - 6822'. Frac: 70,100# 20/40 Ottawa.

Note: Fish is 3-7/8" bit & bottom half of pump-off sub. Length - 1.16'.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

015

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Gas
☐ Well ☒ Well ☐ Other

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2. Name of Operator

QEP UINTA BASIN, INC.

3. Address and Telephone No.

11002 E. 17500 S. VERNAL, UT 84078-8526

Contact: mike.stahl@questar.com

435.781.4389 Fax 435.781.4329

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 16, T8S, R22E NENE 550' FNL, 598' FEL

5. Lease Designation and Serial No.

ML 22049

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

GB 1MU-16-8-22

9. API Well No.

43-047-34656

10. Field and Pool, or Exploratory Area

GLEN BENCH

11. County or Parish, State

UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Commingling

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

"In compliance with the stated objectives of the Federal Regulations for Onshore Oil & Gas Operations and the applicable Federal Unit Agreement and the Utah Administrative Code, R249-3-22, Questar Exploration and Production Company hereby requests the commingling of production between intervals in the GB 1MU-16-8-22. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the two gas streams. Questar requests approval for the commingling between the Mesa Verde and Wasatch intervals. The proposed method to determine the allocation of production between the intervals is described below:

1 - Seven Mesa Verde zones located from 8736' to 9527'; and four Wasatch zones located from 6820' to 7575' will be placed on production for a minimum of 90 days to stabilize production. At that time a gas sample will be taken and analyzed to serve as a baseline.

2 - The initial allocation is being estimated from the net pay of the Mesa Verde and Wasatch formations. That allocation would be:

Mesa Verde Production: 26% - for 15' of net pay

Wasatch Production: 74% - for 42' of net pay

3 - BLM, 2- Utah OG&M, 1 - Denver, 1 - file Word file-server

COPY SENT TO OPERATOR

Date: 4/13/05
Initials: CHD

14. I hereby certify that the foregoing is true and correct.

Signed Mike Stahl Michael Stahl Title Engineer

Date 3/14/05

(This space for Federal or State office use)

Approved by:

Title

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any statement or any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Date: 4/19/05
By: [Signature]

*See instruction on Reverse Side

RECEIVED
MAR 18 2005

DIV. OF OIL, GAS & MINING

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary



Commingled well

 White River Unit boundary

----- Lease line

Uinta Basin—Uintah County, Utah

QUESTAR
Exploration and
Production

05722\Maps\Utah maps\Comm 2005\16822.cdr

AFFIDAVIT OF NOTICE

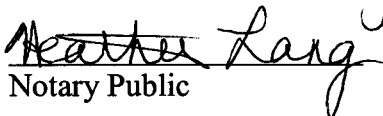
STATE OF COLORADO)
COUNTY OF DENVER) ss:

Angela Page, being duly sworn, deposes and says:

1. That I am employed by Questar Market Resources in the capacity of Associate Landman. My business address is Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
2. In my capacity as Associate Landman, pursuant to the provisions of Utah Administrative Rule 615-3-22 I have provided a copy of Questar Market Resource's application for completion of the GB 1MU-16-8-22 well into two or more pools, in the form of Utah Division of Oil, Gas and Mining's Form 9 Sundry Notice, to owners of all contiguous oil and gas leases or drilling units overlying the pools which are the subject of that application.
3. In my capacity as Associate Landman I am authorized to provide such notice of Questar Market Resource's application to contiguous owners and to make this affidavit on this 16th day of March, 2005.


Printed Name: Angela Page

The foregoing instrument was sworn to and subscribed before me this 16th day of March, 2005, by Angela Page


Notary Public

My Commission Expires 07/08/2008



Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ
2. CDW

Change of Operator (Well Sold)

X - Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/1/2007

FROM: (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900	TO: (New Operator): N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900
---	--

CA No.				Unit:	GLEN BENCH UNIT			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS				*				

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: _____
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS: THIS IS A COMPANY NAME CHANGE.

SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
 GLEN BENCH (ENHANCED RECOVERY) UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GB 8D-20-8-22	GB 8D-20-8-22	SENE	20	080S	220E	4304737665	15977	Federal	GW	DRL
WHITE RIVER U 16-9	WR 16-9	SWSE	09	080S	220E	4304715081	4915	Federal	OW	S
GLEN BENCH 31-30	GLEN BENCH 31-30	NWNE	30	080S	220E	4304731008	13727	Federal	OW	P
NGC 13-20	GB 13-20	NWSW	20	080S	220E	4304731355	13727	Federal	OW	P
GLEN BENCH FED 22-20	GB 22-20	SENE	20	080S	220E	4304731356	13727	Federal	WI	A
FED 31-20	GB 31-20	NWNE	20	080S	220E	4304731433	13727	Federal	OW	P
ANTELOPE DRAW 2-17-4C	GB 2-17	SESW	17	080S	220E	4304731555	13727	Federal	OW	P
ANTELOPE DRAW 3-17-3C	GB 3-17	SESE	17	080S	220E	4304731556	13727	Federal	OW	S
GLEN BENCH 8-19	GB 8-19	SENE	19	080S	220E	4304732476	13727	Federal	OW	P
GLEN BENCH 4-30-8-22	GB 4-30-8-22	NWNW	30	080S	220E	4304732755	13727	Federal	OW	S
GLEN BENCH U 15-19-8-22	GB 15-19-8-22	SWSE	19	080S	220E	4304732756	13727	Federal	WI	A
OU GB 1G-19-8-22	OU GB 1G-19-8-22	NENE	19	080S	220E	4304734696	13727	Federal	OW	S
OU GB 2W-30-8-22	GB 2ML-30-8-22	NWNE	30	080S	220E	4304735080	14816	Federal	GW	P
GB 8ML-17-8-22	GB 8ML-17-8-22	SENE	17	080S	220E	4304737995		Federal	GW	APD
WHITE RIVER U 43-16	WR 43-16	NENW	16	080S	220E	4304731354	5170	State	OW	S
WHITE RIVER U 45-16	GB 45-16	NENE	16	080S	220E	4304731399	13727	State	OW	P
GLEN BENCH ST 6-16	GB 6-16	SENE	16	080S	220E	4304732549	13727	State	WI	A
GLEN BENCH ST 7-16	GB 7-16	SWNE	16	080S	220E	4304732582	13727	State	WI	A
GLEN BENCH ST 12-16	GB 12-16	NWSW	16	080S	220E	4304732583	13727	State	WI	A
GLEN BENCH U 11-16-8-22	GB 11-16-8-22	NESW	16	080S	220E	4304732857	13727	State	OW	P
GB 1MU-16-8-22	GB 1MU-16-8-22	NENE	16	080S	220E	4304734656	14251	State	GW	P
OU GB 7W-16-8-22	OU GB 7W-16-8-22	SWNE	16	080S	220E	4304734659	13747	State	GW	P

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265	7. UNIT or CA AGREEMENT NAME: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached	8. WELL NAME and NUMBER: see attached
PHONE NUMBER: (303) 308-3068	9. API NUMBER: attached
	10. FIELD AND POOL, OR WILDCAT:

FOOTAGES AT SURFACE: attached

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/1/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Operator Name Change
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

Fee Land Bond Number: 965003033

Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Jay B. Neese, Executive Vice President
Questar Exploration and Production Company

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE DATE 3/16/2007

(This space for State use only)

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APR 19 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:

QUESTAR EXPLORATION AND PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:

1050 17th Street Suite 500 Denver

STATE CO ZIP 80265

PHONE NUMBER:

(303) 308-3068

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: attached

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
see attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
see attached

7. UNIT or CA AGREEMENT NAME:
see attached

8. WELL NAME and NUMBER:
see attached

9. API NUMBER:
attached

10. FIELD AND POOL, OR WILDCAT:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

1/1/2007

☐ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

TYPE OF ACTION

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Well Name Changes

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) Debra K. Stanberry

TITLE Supervisor, Regulatory Affairs

SIGNATURE

DATE 4/17/2007

(This space for State use only)

RECEIVED

APR 19 2007

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

April 23, 2007

Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Glen Bench Enhanced Recovery Unit
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Glen Bench Enhanced Recovery Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Glen Bench Enhanced Recovery Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Glen Bench Enhanced Recovery Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Glen Bench Enhanced Recovery Unit (w/enclosure)
Agr. Sec. Chron
Reading File
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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL	OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22049
2. NAME OF OPERATOR:	QUESTAR EXPLORATION AND PRODUCTION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR:	11002 E 17500 S CITY Vernal STATE Ut ZIP 84078	7. UNIT or CA AGREEMENT NAME: N/A
	PHONE NUMBER: (435) 781-4362	8. WELL NAME and NUMBER: GB 1MU-16-8-22
4. LOCATION OF WELL		9. API NUMBER: 4304734656
		10. FIELD AND POOL, OR WILDCAT: White River

FOOTAGES AT SURFACE: 550' FNL 598' FEL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 16 8S 22E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/25/2004	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Seven Mesa Verde zones from 8736' to 9527' and four Wasatch zones from 6820' to 7575' were perforated, fraced and put on production for 90 days to allow production to stabilize. Samples were taken and analyzed to provide data for baseline data. Production has been commingled and is being allocated 74% Wasatch and 26% Mesa Verde.

NAME (PLEASE PRINT) Rick Canterbury	TITLE Regulatory Affairs
SIGNATURE <i>Rick Canterbury</i>	DATE 6/25/2008

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JUN 27 2008

(See Instructions on Reverse Side)
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

6/14/2010

FROM: (Old Operator): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048	TO: (New Operator): N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048
--	--

CA No.				Unit:	GLEN BENCH ENH REC			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- 5a. (R649-9-2) Waste Management Plan has been received on: Requested
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
7. UNIT or CA AGREEMENT NAME: See attached
8. WELL NAME and NUMBER: See attached
9. API NUMBER: Attached
10. FIELD AND POOL, OR WILDCAT: See attached

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Questar Exploration and Production Company *N5085*

3. ADDRESS OF OPERATOR:
1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See attached

COUNTY: Attached

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~ } *965010695*

BIA Bond Number: ~~789446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst
SIGNATURE *Morgan Anderson* DATE 6/23/2010

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JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *6/13/2010*
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
 GLEN BENCH ENH REC
 effective June 14, 2010

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
GLEN BENCH 31-30	30	080S	220E	4304731008	13727	Federal	OW	P	
WR 43-16	16	080S	220E	4304731354	5170	State	OW	P	
GB 13-20	20	080S	220E	4304731355	13727	Federal	OW	S	
GB 45-16	16	080S	220E	4304731399	13727	State	OW	P	
GB 31-20	20	080S	220E	4304731433	13727	Federal	OW	P	
GB 2-17	17	080S	220E	4304731555	13727	Federal	OW	P	
GB 3-17	17	080S	220E	4304731556	13727	Federal	OW	TA	
GB 8-19	19	080S	220E	4304732476	13727	Federal	OW	P	
GB 4-30-8-22	30	080S	220E	4304732755	13727	Federal	OW	S	
GB 11-16-8-22	16	080S	220E	4304732857	13727	State	OW	P	
GB 1MU-16-8-22	16	080S	220E	4304734656	14251	State	GW	P	
OU GB 7W-16-8-22	16	080S	220E	4304734659	13747	State	GW	P	
OU GB 1G-19-8-22	19	080S	220E	4304734696	13727	Federal	OW	P	
GB 2ML-30-8-22	30	080S	220E	4304735080	14816	Federal	GW	P	
GB 8D-20-8-22	20	080S	220E	4304737665	15977	Federal	GW	P	
GB 13AML-17-8-22	17	080S	220E	4304739227		Federal	GW	APD	C
GB 4DML-20-8-22	20	080S	220E	4304739228		Federal	GW	APD	C
GB 12DML-20-8-22	20	080S	220E	4304739229		Federal	GW	APD	C
GB 16BML-19-8-22	19	080S	220E	4304739233		Federal	GW	APD	C



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office
From: Chief, Branch of Minerals *Roger L Bankert*
Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

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AUG 16 2010

DIV. OF OIL, GAS & MINERAL